# **Public Health** Reports

DECEMBER 29, 1950 NUMBER 52

#### IN THIS ISSUE

Causes of Absenteeism in New Haven Schools Communicable Diseases, Third Quarter, 1950



FEDERAL SECURITY AGENCY

PUBLIC HEALTH SERVICE

# FEDERAL SECURITY AGENCY Oscar R. Ewing, Administrator

PUBLIC HEALTH SERVICE Leonard A. Scheele, Surgeon General

Division of Public Health Methods G. St. J. Perrott, Chief of Division

### CONTENTS

	Page
Causes of absenteeism in New Haven schools. Follow-up after 21 years.	
Joseph I. Linde, Abraham Gelperin, and Morris A. Granoff	1737
Reported incidence of communicable diseases in the United States, third	
quarter, 1950	1745
1	
INCIDENCE OF DISEASE	
United States:	
Summary of reports from States	1754
Deaths during week ended December 9, 1950	1755
Table of reported cases of communicable diseases	1756
Foreign reports:	
Canada—Provinces—Week ended November 25, 1950	1758
Finland—October 1950	1758
Norway—September 1950.	1758
World distribution:	
Cholera	1759
Plague	1759
Smallpox	1760
Typhus fever	1762
Yellow fever	1763

a

# Public Health Reports

Vol. 65 • DECEMBER 29, 1950 • No. 52

# Causes of Absenteeism in New Haven Schools

-Follow-up After 21 Years-

By Joseph I. Linde, M.D., Abraham Gelperin, M. D., Dr. P. H., and Morris A. Granoff, M.D.,\*

A reevaluation of the causes of absenteeism in New Haven schools during the 1948–49 school year revealed 66.3 absences per 100 pupils per school year as compared with 48.6 in 1927–28, an increase of 17.7 absences per 100 school children under observation. This increase was disclosed in a continuing study of absenteeism of three or more consecutive school days in the New Haven public and parochial school population. The 1948–49 study is a follow-up of an investigation by Wilson and his co-workers for 1927–28 (1).

ge

37

15

54

55

58

58

59

The classification of causes of absence and the methods of tabulation utilized in 1927–28 were employed in the present study. The causes of absenteeism recorded in the earlier investigation represented the considered opinion of the school nurse or physician; their conclusions were based upon home visits by school nurses, physicians or health department epidemiologists, as well as information from family physicians, parents, or, frequently, the children themselves. Information given by the school child stems, on the whole, from the parent or family physician. During 1948–49, the bulk of data was obtained directly from physicians or parents. A factor affecting the number of cases in both studies was some variation in enforcement of the ruling that children absent three or more school days must be seen by the school nurse or doctor. Probably a minimum of 95 percent of all absences were recorded in both 1927–28 and 1948–49.

Further differences were noted. First, no cases of German measles were tabulated in the earlier investigation. Information in this office revealed that the school year 1927–28 was a period of low

<sup>\*</sup>Health Officer; Director, Bureau of Communicable and Venereal Disease Control; and Assistant Epidemiologist, New Haven Health Department, New Haven, Conn. Cooperating in the study was the Department of Public Health, Yale University School of Medicine. Presented before the School Health Section of the American Public Health Association at the seventy-seventh annual meeting, New York, October 24, 1949.

All the differences except the last described are not significant; the last discrepancy necessitates statistical compensation. The utilization of school days only in 1948–49 was required by other concomitant investigations. The discrepancy can be overcome if 1 day is added to each 2.5 days of absence in 1948–49; or 1 day is subtracted from each 3.5 days in 1927–28. Thus, 2 days are added to each 5 days' absence in 1948–49, which closely approximates the calendar week utilized in 1927–28. Six additional days of absence because of short holidays in 1927–28 are not considered because they do not materially affect the calculations. This correction assumes that the frequency of absences beginning on each day of the week was the same as the average. Actually, both studies found that some parents

Table 1. Number of cases of absenteeism and cases of absenteeism per 100 pupils, by age, New Haven, 1948-49

Age (years)	School popula- tion	Pupil days per school year	Cases of absentee- ism	Cases per 100 pupils
and under	3 214	587, 520	2. 603	83.
0	2, 422 2, 088	435, 960 375, 840	2, 959 1, 936	122.2
	1, 878	338, 040	1, 504	80. 1
0	1, 859	334, 620	1, 193	64.2
10	1, 955	351, 900	1, 113	56.9
11	1,848	332, 640	878	47.
12	1,822	327, 960	782 682	42.5
4	1, 899 1, 736	341, 820 312, 480	770	35.1
15	1, 494	268, 920	861	57. 6
16	1, 321	237, 780	780	59. (
7	1, 181	212, 580	598	50.6
8	687	123, 660	205	29. 8
19 and over	202	36, 360	24	11.9
Total	25, 606	4, 609, 080	16, 978	66.3

<sup>1</sup> Excluding Christmas and Easter vacation.

tended to keep children out of school over the week end even though the children were well enough to return to school on Friday.

Data collected for the 1948-49 study show there were 16,978 absences of 3 or more consecutive school days, or a rate of 66.3 absences per 100 school children during the school year (table 1). These figures compare with 16,382 absenteeism cases, or a rate of 48.6 absences per 100 school children during the school year in 1927-28. In 1948-49, there were 25,606 school children, 180 school days, and 4,609,080 pupil days; in 1927-28, there were 33,700 public school children, 186 school days, and 6,268,200 pupil days. High school children are included in both studies.

The causes of absence are listed in tables 2, 3, and 6. The first three divisions constitute the respiratory infections and warrant further clarification:

- 1. Colds include grippe, influenza, and virus infection of less than 7 days' duration.
- 2. Diseases of throat and tonsils include "sorethroat," laryngitis, croup, and tonsil and adenoid operations.
- 3. Other respiratory diseases include tracheitis, bronchitis, sinusitis, tuberculosis, and pneumonia, and also grippe, influenza, and other virus infections of more than 6 days' duration.

The other divisions are self-explanatory except that scarlet fever includes beta-hemolytic streptococcal nose and throat infections.

Table 2. Number of cases and days of sickness, by cause of sickness, New Haven, 1927-28 and 1948-49

Cause of sickness	Number of	of cases	Number of days of sickness	
	1927	1948	1927	1948
Colds Diseases of throat and tonsils Other respiratory diseases	5, 783 1, 956 566	7, 347 2, 168 997	51, 636 17, 618 13, 415	36, 713 12, 781 8, 911
Diphtheria Chickenpox Measles German measles	114 340 1, 570	733 1, 823	2, 492 5, 905 32, 683	6, 663 20, 173 1, 033
Mumps Wooping cough Scarlet fever	1, 723 519 43	520 23 222	25, 551 25, 589 1, 363	4, 527 519 2, 576
Two communicable diseases, consecutive	159 276 204	78 185 404 167	1, 343 3, 943 1, 644	1, 358 989 2, 696 884
Digestive disease and disorder	446 248 356	462 411 196	5, 697 3, 436 5, 271	2, 670 2, 824 1, 451
Miscellaneous other sickness	1, 135 15, 468 8, 305	856 16, 763 10, 512	212, 076 82, 669	6, 214 112, 982 58, 405
All specific communicable diseases of childhoodAll other causes of sickness	4, 309 2, 854 914 16, 382	3, 570 2, 681 215 16, 978	93, 583 35, 824 12, 501 224, 577	36, 849 17, 728 1, 552 114, 534

Included in miscellaneous other sickness in 1927-28.
 Allocated separately to each cause in 1927-28.

ed

ol

re

1-

1-

0-

n.

in

of

ip

as

ce

m

ıd

1e

[n

d.

1e

a-

nt

be

m

s' k

rt

e-10 10 ts ge,

18

3. 8 2. 2 2. 7 3. 1

1.2 3.9 7.5 2.9 5.9 1.4 7.6

0.0

3.3

0

Table 3. Absences due to various causes of illness and to causes other than illness among school children of New Haven

Causes of absence	per 100,000 pupil days		during year per 100,000 pupil days		during year per 100,000 change pupil days in absence		Days lost from school during year per 100,000 pupil days <sup>1</sup>		Days lost from school per case 1		Per- centage change in days per case.
	1927	1948	rates, 1927 to 1948	1927	1948	lost, 1927 to 1948	1927	1948	1927 to 1948		
Colds Diseases of throat and tonsils Other respiratory diseases Diphtheria	9. 03 1. 82		+50.7 +139.5	281, 1 214, 0 39, 8		+26.4	23.7 21.9	8.3 12.5	-7. -47.		
Chickenpox. Measles German measles Mumps Whooping cough. Scarlet fever.	25. 05 (2) 27. 49	15, 90 39, 55 3, 71 11, 28 . 50 4, 82	+57. 9 -59. 0 -94. 0	521. 4 (2) 407. 6 408. 2	612.8 31.4	+17.5 -66.3 -96.1	20.8 (2) 14.8 49.3	15, 5 8, 4 12, 2 31, 6	-25.		
Two communicable diseases, consecutive.  Diseases and disorders of the eye Earache and ear disease. Toothache and disease of teeth Digestive diseases and disorders Skin diseases Accidents, injuries, and abrasions. Miscellaneous other sickness	4. 40 3. 25 7. 12 3. 96	1. 69 4. 01 8. 77 3. 62 10. 02 8. 92 4. 25 18. 57		62. 9 26. 2 90. 9 54. 8 84. 1	41. 3 30. 1 81. 9 26. 8 81. 1 85. 8 44. 1 188. 7	+40.7 +30.2 +2.3 -10.8 +56.6 -47.6 -18.4	14. 3 8. 1 12. 8 13. 9 13. 7	7.4 8.1 9.7 10.4	-11. -34. -8. -36.		
All sickness	132, 49 68, 74 45, 53	77. 46 58. 17 4. 66	+72.1 +12.7 +27.8 -68.0	3, 383. 4 1, 318. 9 1, 493. 0 571. 5 199. 4 3, 582. 8	1, 774. 1 1, 119. 3 538. 4 47. 2	+1.4 +34.5 -25.0 -5.8 -76.3 -2.9	10. 0 21. 7 12. 6 13. 7		-31. -22. -33. -27. -26. -31.		

Days in 1948 study corrected to a 7-day week basis to agree with 1927 study.

Included in miscellaneous other sickness in 1927-28
 Allocated separately to each cause in 1927-28.

Table 2 presents the raw data, numbers of cases, and total days of absence by cause of absenteeism.

Table 3 shows for both study periods the absences and days lost by cause of absenteeism per 100,000 pupil days based on the total child population during the entire period of risk, as well as the days lost from school per case. Two significant changes occurred—illness increased from 246.6 in 1927-28 to 363.7 cases per 100,000 pupil days in 1948-49, and the incidence of respiratory diseases increased from 132.3 to 228.1. Since rates for the childhood communicable diseases are dependent upon epidemicity, comparisons of case rates for 1 year with another are not valid. Significant increases in both absences and days lost per 100,000 pupil days occurred in most disease categories, but the respiratory disease group showed the greatest increase. Remembering the difference in criteria of absence in 1927-28 and in 1948-49, the days lost from school per case may be compared if the adjustment mentioned is utilized. A significant decrease in days lost from school per case for every category becomes evident. These results are comparable to the findings of Ciocco, Cameron and Bell (3) in their evaluation of the 1921-25, 1935-36, and 1939-40 studies on absenteeism in Hagerstown, Md., schools. The case rates per

1,000 children per school year for all causes of absence increased for each succeeding study period; and the average number of days absent per case of sickness decreased.

Table 4 presents the average duration per case by age groups for all sickness and for all sickness categories minus the childhood communicable diseases. This tabulation shows the longer duration of illness in the younger age groups in both study periods, as well as the greatest decrease in average duration in age groups 5 through 9. This trend was also noted in the Hagerstown evaluation (3).

Table 5 presents the important and not wholly unexpected finding that the case rates of sickness by age per 100,000 pupil days for 1948-49 show a progressive increase over the 1927-28 observations. rates for 1948-49 are approximately double those for 1927-28 at ages 10 and older. The major factors for this change may be the shift of previously predominant preschool communicable diseases to the school age group (4, 5), the decreasing size of the American family (6, 7), the low birth rate in the 1930's (7), natural and induced changes in the host-parasite relationship (5, 8, 9, 10, 11), use of new preventives

Table 4. Average duration per case by age groups, New Haven, 1927-28 and 1948-49

Age (years)	All siel	All sickness excep S. C. C. D.				
	1927	1948 3	1927	1948 3		
5 and under	19. 2 16. 0 14. 7 12. 9 10. 9 10. 2 10. 1 9. 9 9. 7 8. 8 8. 5 8. 3	11. 6 11. 1 10. 2 8. 7 9. 0 8. 7 8. 3 8. 0 7. 7 7. 4 6. 3 7. 0	13. 9 11. 7 10. 9 10. 2 10. 1 9. 5 9. 3 9. 6 9. 5 9. 5 8. 5 8. 0	9. 9. 8. 8. 7. 7. 7. 7. 7. 7. 6.		

ng

ze vs

.88

.0

. 6

.9

. 6

. 4

of

st al

22 S m

es ır

es ee. n ie 78 80 11 38 er

0

Specific childhood communicable diseases.
 Days in 1948 study corrected to a 7-day week basis to agree with 1927 study.

Table 5. Case rates of sickness due to all causes, by age, New Haven, 1927-28 and 1948-49

Age (years)	Cases per 100,000 pupil days		Age (years)	Cases per 10 day	
	1927	1948		1927	1948
5 and under	619, 5 543, 9 424, 8 287, 7 225, 1	460. 8 673. 5 513. 5 440. 2 353. 5	14	129. 4 137. 2 103. 7 85. 0 61. 9	243. 3 310. 9 310. 8 264. 4 160. 9
10	177. 5 160. 3	315, 2 263, 3	19. 20 and over.	50. 7 159. 3	63.
1 <b>2</b>	140. 4 130. 6	237. 5 198. 1	All ages	246.6	363.7

and therapeutics (12), relaxation of quarantine restrictions (13, 14), and expanded and better school health programs (15). This important shift in age-specific rates emphasizes the necessity of periodic reevaluation of school health and communicable disease control programs.

Table 6. Average duration per case of sickness by sex and diagnosis, New Haven, 1927-28 and 1948-49

		Average days	of sickness	
Cause of sickness	Во	ys	Gir	rls
	1927	1948 1	1927	1948 1
Colds Diseases of throat and tonsils Other respiratory diseases Diphtheria Chickenpox Measles German measles Mumps Whooping cough Scarlet fever Two communicable diseases Diseases and disorders of the eye Earache and ear diseases Toothache and disease of teeth Digestive diseases and disorders Skin diseases Accidents, injuries and abrasions Miscellaneous sickness	8. 9 9. 2 22. 3 17. 6 21. 3 (3) 15. 1 48. 2 31. 5 (2) 8. 7 15. 0 8. 1 13. 2 14. 2 14. 2 14. 3	7. 0 8. 1 12. 3 15. 5 8. 7 12. 3 30. 2 16. 2 24. 6 7. 6 9. 5 7. 7 8. 0 9. 5 10. 2	9. 0 8. 8 25. 4 20. 5 17. 2 20. 4 (4) 14. 5 50. 4 31. 8 (2) 8. 2 13. 7 8. 0 12. 4 15. 0 12. 8	7.6 8.3 12.6 15.5 8.7 12.2 32.9 16.2 24.1 7.4 9.2 7.1 8.1 9.7
All sickness.	14.0	9.5	13. 5	9. 4

Days in 1948 corrected to a 7-day-week basis to agree with 1927 study.
 Allocated separately to each cause in 1927-28.
 Included in miscellaneous other sickness in 1927-28.

Table 7. Average duration per case of sickness, by age and sex, New Haven, 1927-28 and 1948-49

	Average	number of day	s of sickness	s per case	
Age (years)	Boys		Gi	Girls	
	1927	1948 1	1927	1948 1	
and under	19. 5 15. 9 15. 4 13. 0 12. 3 10. 9 10. 2 10. 0 10. 1 10. 4 10. 4 8. 5 8. 6 8. 2 2 11. 8	11. 5 11. 1 10. 4 9. 4 9. 0 8. 8 1 7. 7 8. 0 7. 7 7. 3 7. 1 7. 0 6. 9 8. 3	18. 8 16. 0 14. 1 12. 8 11. 8 11. 0 10. 1 10. 3 10. 1 9. 5 8. 9 9. 0 8. 5 8. 5 8. 5	11. 8 10. 9 9. 2 9. 6 8. 4 8. 1 7. 7 5. 6 7. 7 7. 1	
0 and over	7.0	9.5	5. 8	9.	

<sup>1</sup> Days in 1948 study corrected to a 7-day-week basis to agree with 1927 study.

No significant differences are noted in the average duration per case by sex. In fact, there is remarkable uniformity (table 6). The lack of sex difference is again noted in the average duration per case by age (table 7).

### Summary

- 1. A follow-up study on the causes of absenteeism in New Haven schools was made 21 years after the 1927-28 investigation by Wilson
- 2. The studies are comparable except that the 1927-28 survey included absence over Saturdays, Sundays, and short holidays if the child was absent prior to a week end or legal holiday; while the 1948-49 study considered school days only. Nevertheless, it is considered that the addition of 1 day for each 2.5 days' absence during 1948-49 allows for comparison with the 1927-28 figures.

3. In a smaller school population of 25,606 in 1948-49 compared with 33,700 in 1927-28, 180 school days instead of 186 days, and 4,609,080 pupil days compared with 6,268,200, the absenteeism rate per 100 pupils is 66.3 for 1948-49 compared with 48.6 in 1927-28.

- 4. The major change is the increase in incidence of respiratory infections; absences attributed to this cause rose from 132.49 to 228.07 per 100,000 pupil days. A particularly important decline in average days of absence per case occurred in the "other respiratory disease"
- 5. The childhood communicable diseases show no marked change in case load, the major change being a decrease in average days of absence per case.
  - 6. There continues to be no demonstrable sex difference.
- 7. The younger age groups continued to have the highest incidence of illness, but the incidence is consistently higher for each age in 1948-49 except for age 5 and under. The 1948-49 increase in morbidity is most marked in the older children, starting about age 10.

#### REFERENCES

C

- (1) Wilson, C. C., Hiscock, I. V., Watkins, J. H., Case, J. D., and Rice, J. L.: A study of illness among grade school children. Pub. Health Rep. 46: 1801 (1931).
- (2) Wilson, C. C.: Personal communication.
   (3) Ciocco, A., Cameron, W. R., and Bell, E.: A comparison of the morbidity of Hagerstown, Maryland, school children in 1921-25, 1935-36, and 1939-40.
- Hagerstown, Maryland, school children in 1921-25, 1935-36, and 1939-40. Milbank Mem. Fund Quart. 19: 375 (1941).
  (4) Gelperin, A.: A shift in age incidence of diphtheria morbidity. J. Med. 21: 371 (1940).
  (5) Auerbach, H.: Communicable disease trends. In preparation.
  (6) U. S. Bureau of the Census: 12th Census of the United States, 1900. Vol. II. Population, pt. 2. Washington, U. S. Census Office, 1902, p. 160.
  (7) U. S. Bureau of the Census: 16th Census of the United States, 1940. Population families, size of family and age of head. Washington, Governed

- lation, families, size of family and age of head. Washington, Government Printing Office, 1944, p. 4; Vital statistics rates in the United States 1900–1940. Washington, Government Printing Office, 1943, p. 666.

(8) Norwood, M. P.: An evaluation of factors responsible for public health progress in the United States. Science 89: 517 (1939).

(9) Gale, A. H.: A century of changes in mortality and incidence of principal infectious diseases. Arch. Dis. Childhood 20: 2 (1945).
 (10) Levinthal, W. M.: Problem of bacterial variability and origin of infectious disease. Edinburgh Med. J. 53: 426 (1946).
 (11) Greenwood M.: Pridemies and Crowd Disease. Williams and Marchet

disease, Edinburgh Med. J. 53: 426 (1946).

(11) Greenwood, M: Epidemics and Crowd Disease. Williams and Morgate, Ltd., London, 1935.

(12) Cooke, J. V.: The effect of specific therapy on the common contagious diseases. J. Pediat. 35: 275 (1949).

(13) Gelperin, A., Linde, J. I., and Granoff, M. A.: Trends in communicable disease control. Pediatrics 5: 1039 (1950).

(14) The control of communicable diseases in man. Pub. Health Rep. Reprint No. 1697 (revised 1950).
(15) Wilson, C. C.: Improving school health programs. Yale J. Biol. and Med.

19: 603 (1946).

3

1 S

I

# Reported Incidence of Communicable Diseases in the United States, Third Quarter, 1950

This summary gives provisional figures on cases of communicable diseases reported by the health departments of each State, Alaska, Hawaii, Panama Canal Zone, Puerto Rico, and the Virgin Islands for the third quarter of 1950. The figures are subject to change when final annual figures are released by each State, but in most instances the changes will be small.

Usefulness of the data is limited greatly by wide variation in completeness and accuracy of reporting within and between States and for different diseases. Variation in use of laboratory procedures for confirmation of diagnoses, differing definitions of diseases for reporting purposes, and varying methods of tabulation also contribute to the difficulties of interpretation.

The table gives the numbers of reported cases of selected communicable diseases for each division and State in July, August, and September 1950. Data for diseases reported with low frequencies or by only a few States are given after the table.

### Whooping Cough

Reported cases of whooping cough for the quarter totaled 28,403 as compared with 19,668 for the same period in 1949. The 5-year median was 29,216. The States reporting the largest numbers were Texas (3,545), Michigan (2,337), New York (1,739), and Wisconsin (1,630).

# Poliomyelitis

The greatest incidence of poliomyelitis in the United States occurs in the third quarter of the year, usually about two-thirds of the total for any given year. In this quarter of 1950, 18,579 cases were reported compared with 29,661 in the same period of 1949. New York State reported the largest number of cases (2,356), followed by Texas (1,481), Illinois (1,112), Michigan (992), California (925), and Ohio (922). All of these States, except Texas, reported fewer cases than in the third quarter of 1949.

# Rocky Mountain Spotted Fever

A total of 264 cases was reported during this quarter compared with 300 in the same period of 1949. Nearly one-half (48 percent) of the total for the entire country occurred in 3 South Atlantic States. Maryland reported 29 cases, Virginia 47, and North Carolina 52.

# Scarlet Fever and Septic Sore Throat

In the third quarter of 1950, a total of 4,331 cases of scarlet fever

# Reported Cases of Selected Communicable Diseases in the United States, Each Division and State, Third Quarter 1950

[Numbers under diseases are International List numbers, 1948 revision]

					Dyse	entery (045	-048)
Area	Brucel- losis (044)	Chicken- pox (087)	Conjune- tivitis <sup>1</sup> (370)	Diph- theria (055)	Amebic (046)	Baciliary (045)	Unspecified (047, 048)
New England	29	1, 509	1	31	3	35 2	
Maine	2	262 24		13			*********
New Hampshire Vermont	3	131		********	********		
Massachusetts	7	771		18	1	27	
Rhode Island	2 15	59 262	1	*******	2	6	*********
Connecticut	55	3, 165	5	73	227	124	
Middle Atlantic	32	1, 402	5	37	214	116	
New York New Jersey	6	946		11	11 2	4 4	
Pennsylvania	17	817		25	266	145	42
East North Central	210	3, 087 658	31	64 12	3	11	23
OhioIndiana	17	62		23		1	2
Illinois	112	598	11 20	14 21	217 46	52 81	(*)
Michigan	28 46	575 1, 194	20	4			17
West North Central	205	449	1	41	22	66	7
Minnesota	56	83		11	16	55	
Iowa	66	102	1	5 9	1 3	1 8	6
Missouri	18 12	89 29	1				
North Dakota	10	12		3	(*)	(*)	(*)
Nebraska	39	37 97		1 12	1	2	1
Kansas	-	453	62	370	75	196	1, 666
South Atlantic	94	10	0.5	810		2	
Maryland	16	109		14	1	4	
District of Columbia	1	66		39	1 3	20	1,657
Virginia West Virginia	17	135 29		49		18	
North Carolina	10			159	23	15 38	
North Carolina South Carolina	1 24	34	31	46	111	88	9
Georgia	34 15	70	31	15	32	11	
East South Central	43	165	3	182	117	69	7
Kentucky	4	39	1	35	48	18 28	
Tennessee	15	98 28	2	25 61	23 14	(*) 20	(*)
Alabama Mississippi	11	25		61	32	23	(*)
West South Central	114	68		250	266	5, 047	3, 286
Arkansas	9	33		. 28	25	142	(*) 161
Louisiana	11	31		29 27	92	1 7	40
Oklahoma Texas	32 62	01		166	136	4, 897	3, 08
Mountain	36	782	57	38	107	374	81
Montana	10	111	4	7	4	1	
Idaho	6	52 21	4	2	******	******	
WyomingColorado	10	127		6	1	12	
New Mexico		. 37		. 1	11 82	21 340	24
Arizona	2 5	239		17	9	340	
Utah Nevada		23			********		2
Pacific	45	1, 737	10	41	191	178	6
Washington	4			. 4	84	3 3	
Oregon	5 36		10	10 27	103		
California							-
Third quarter 1950	. 831		170	1,090	1, 274 1, 440	6, 234 8, 921	
Third quarter 1949 Median 1946-49	1, 171 1, 423	10, 524 12, 362	221 179	1, 513 2, 039	1, 174	7, 109	
	1, 140						
Alaska		. 53		2	1	8	
Hawaii	. 1	91		27	23		
Puerto Rico 3		129		_ 140			-
Virgin Islands 1		. 3					

<sup>\*</sup>Reported not notifiable. <sup>1</sup> For reported cases of "Ophthalmia neonatorum" see the section following table. <sup>1</sup> Four months, May to August. <sup>2</sup> From weekly reports, June to September.

1746

# Reported Cases of Selected Communicable Diseases in the United States, Each Division and State, Third Quarter 1950—Continued

[Numbers under diseases are International List numbers, 1948 revision]

Area	Encephalitis, acute infectious (082)	German measles (086)	Hook- worm disease (129)	Influ- enza (480–483)	Malaria (110-117)	Measles (085)	Meningitis, meningococcal (057.0)
New England	8	441		20	3	2, 295	21
Maine		66		14		52	8
New Hampshire		25 39		2		60	1
Vermont	6	255	********	(*)	1	74 1,576	
Rhode Island.		1		4		17	9
Connecticut	2	55			2	516	Ī 6
Middle Atlantic	54	913	41	28	5	7, 761	100
New York New Jersey	42	379	41	16	2	3, 141	46
New Jersey	9	352		11	3	2, 271 2, 349	9
Pennsylvania	3	182		11			51
East North Central	41	563	3	195	1	6, 686	101
Ohio	2	126	2	18		1,380	25
IndianaIllinois	5 14	18		14	1	318 1, 732	39
Michigan	13	160	1	4		1, 160	21
Wisconsin	7	175		155		2,096	18
West North Central	30	26		76	1	916	59
Minnesota	2			13	1	192	13
Iowa		2				125	11
Missouri	2	8		15		289	14
North Dakota	11 10			5		62 54	6
Nebraska	10			36		107	4
Kansas	5	16		7		87	8
South Atlantic	8	57	1, 338	2, 308	65	1, 209	83
Delaware		1		.,		47	
Maryland	3	33		19	4	137	3 8 7
District of Columbia	******			1,906	2 7	37 416	14
Virginia	1	17		1,900	1	174	15
North Carolina	*			***	12	115	16
South Carolina	3			141	32	39	
Georgia	1		1 000	109	7	99	8 7 5
Florida		6	1, 338	9	1	145	1
East South Central	15	24	443	213	70	646 200	84
Kentucky Tennessee	9	16	48	107	4 6	276	20 35
Alabama	3	1	*	82	35	113	21
Mississippl	1		391	22	25	57	8
West South Central	32	34	94	6, 693	682	1, 757	130
Arkansas		10	1	368	22	155	18
Louisiana		1	82	3		43	13
Oklahoma	9 23	23	11	266 6,056	50 610	78 1, 481	10 89
Texas							
Mountain	14	173 18	2	8 <b>53</b> 160	3	1, 561	16
MontanaIdaho	3	23	********	66	********	215	3
Wyoming		14				35	
Colorado	2	28		129		663	
New Mexico	3	5		9	1	60	2
Arizona Utah	2	52 33		424	2	78 425	8
Nevada	4		2	61		38	
	159	463	1	157	11	2, 472	49
Pacific		200		32		217	5
Pacific	11	menance and	1	69		147	7
Washington	1 2			56	11	2, 108	37
Washington		463					
Washington Oregon California Third quarter 1950	156 361	2,694	1, 922	10, 543	841	25, 303	651
Washington Oregon California Third quarter 1950 Third quarter 1949	2 156 361 314	2, 694 3, 046	2,500	10, 543 3, 112	1,585	23, 135	632
Washington	156 361 314 314	2, 694 3, 046 2, 161	1, 922 2, 500 2, 799	10, 543 3, 112 7, 581	1, 585 7, 126	23, 135 23, 135	
Washington Oregon California Third quarter 1950 Third quarter 1949 Median 1945-49	2 156 361 314	2, 694 3, 046 2, 161	2,500	10, 543 3, 112 7, 581	1,585	23, 135 23, 135 7	632 632
Washington Oregon California Third quarter 1950 Third quarter 1949 Median 1945-49 Alaska Hawaii	156 361 314 314	2, 694 3, 046 2, 161 4 29	2,500	10, 543 3, 112 7, 581 8 164	1,585 7,126 1	23, 135 23, 135 7 28	632
Washington Oregon California Third quarter 1950 Third quarter 1949 Median 1945-49	156 361 314 314	2, 694 3, 046 2, 161	2,500	10, 543 3, 112 7, 581	1, 585 7, 126	23, 135 23, 135 7	632 632

<sup>\*</sup>Reported not notifiable. <sup>1</sup> New York City only. <sup>2</sup> Four months, May to August. <sup>3</sup> From weekly reports, June to September.

12 23 2

1 16

9 7

ng

#### Reported Cases of Selected Communicable Diseases in the United States, Each Division and State, Third Quarter 1950—Continued

[Numbers under diseases are International List numbers, 1948 revision]

				Polion	yelitis		Rheu-
Area	Mumps (089)	Pneu- monia (490-493)	Total (080.0- 080.3)	Paralytic (080.0- 080.1)	Non- paralytic (080.2)	Unspecified (080.3)	matic fever (400-402)
New England	1, 209 112	337 112	734 61	252 37	186 24	296	1
Maine New Hampshire	17		24			24	
Vermont	200	*******	23	****	107	23 38	
Massachusetts	556 5	(*)	304 37	159	107	37	(*)
Rhode IslandConnecticut	319	202	285	56	55	174	(*)
Middle Atlantic	4, 605	2, 197	3, 683			3, 683	10
New York	1,908	1,413	2,356			2,356	(*)
New Jersey	1, 353	333	529			529 798	(*)
Pennsylvania	1, 344	451	778	975	872	1, 997	. 18
East North Central	3, 486 927	1, 083	3, 844 922	975	56%	922	10
OhioIndiana	46	63	286	65	39	182	
Illinois	614	653	1, 112	537	437	138	
Michigan	852	248	992	373	396	223 532	•
Wisconsin	1,047	54	532		400		
West North Central	484	843 131	<b>2, 101</b> 313	246 145	130 119	1, 725	1
Minnesota	85	6	868	140	110	868	
Missouri	120	92	220			220	*******
North Dakota	2	525	30			30	(8)
South Dakota	120	14	90 259	*******	******	90 259	(*)
Nebraska Kansas	147	75	321	101	11	209	
South Atlantic	1, 020	1, 442	2, 900	523	262	2, 114	1
Delaware	24 319	212	26 392	243	149	26	~~~~
Maryland District of Columbia	72	142	140	46	94		
District of Columbia Virginia	276	300	868			868	2
West Virginia	66	26	229	******		229 502	
North Carolina	******	58	502 315	*****		315	1
Georgia	100	591	252	225	14	13	1
Florida	163	113	185	19	5	161	(*)
East South Central	361	998	1, 221	798	30	393	10
Kentucky	43	182	442 382	366 382	(*)	(*) 59	
Tennessee	170 148	307	187	382	()	187	
Mississippi		199	210	50	13	147	1
West South Central	441	2, 679	2, 256	225	164	1, 867	1
Arkansas	163	154	203	70	76	57	
Louisiana	40	204	223 349	144	79	329	
Oklahoma Texas	238	157 2, 164	1, 481	***		1, 487	(*)
Mountain	1, 309	402	357	88	67	202	7
Montana	73	3	24	7	1	16	
Idaho	52	44	59			59	1
Wyoming	61	13	23 89	11 43	8 38	4 8	1
Colorado New Mexico	342 46	130 97	58	27	20	11	i
Arizona	292	74	61			61	2
Utah	410	23	34		******	34	
Nevada	33	18	9		*******	9	*******
Pacifie	2, 551	571	1, 474	454	253	767	13
Washington		91 82	327 222	14 131	25 44	288 47	6
Oregon	2, 551	398	925	309	184	432	8
Third quarter 1950	15, 466	10, 552	18, 579	3, 571	1,964	13, 044	69
Third quarter 1949	16,604	11, 376 11, 376	29, 661	6,004	3,376	20, 281	81 84
Median 1945-49	16, 604	11, 376	16, 678	(2)	(*)	(3)	
Alaska	39	7	4			4	
Hawaii	22	6	6	6			
Panama Canal Zone	640	4 124	10			10	
Puerto Rico  Virgin Islands			10	******	****	10	

<sup>\*</sup>Reported not notifiable. <sup>1</sup> July only. <sup>2</sup> Not available. <sup>3</sup> Four months, May to August. <sup>4</sup> Canal Zone only for May and June. <sup>4</sup> From weekly reports, June to September.

# Reported Cases of Selected Communicable Diseases in the United States, Each Division and State, Third Quarter 1950—Continued

[Numbers under diseases are International List numbers, 1948 revision]

Area	Rocky Moun- tain spotted fever	Scarlet fever	Septic sore throat	Small- pox	Tetanus	Tra- choma	Trich- iniasis
	(104)	(050)	(051)	(084)	(061)	(098)	(128)
New England		402	69		17		22
Maine New Hampshire		21	7		5		6
New Hampshire		1 34	(1)	********			
Vermont Massachusetts		15	16				
Rhode Island		271 10	4		6 4		15
Connecticut		51	42		2	*******	1
Middle Atlantic	27	664	13		10		47
New York New Jersey	10	1 351	(1)		6		39
New Jersey	5	83	13		2		1
Pennsylvania	12	230			2		7
East North Central	20	1, 045	68		21	9	1 4
OhioIndiana	5 4	449 70	6 3		3 5	********	1 7 8 2 2
Illinois	10	147	15		6	2	
Michigan	1	252	35		7	1	1
Wisconsin		127	9			6	
Wisconsin	3	229	31	1	14	120	3
Minnesota		41	27		4		3
Iowa	2	26	2				
Missouri	2	52			5	117	
North Dakota		19	1		1	3	
Nebraska		1 55	(1)		1	3	
Vancae	1	34	1	1	3		
KansasSouth Atlantic	140	609	962		33		3
Delaware		3					2
Maryland	29	43	9		3		1
District of Columbia		15			2		
Virginia	47	118	840		6		
West Virginia	2	33	39				*******
North Carolina	52	275	5				
South Carolina	6 4	38 70	8 45		9		
Florida	*	14	16	********	13		(*)
Florida East South Central	25	543	72	1	28	11	
Kentucky	3	142	39		1	11	
Tennessee	12	263	33		10		
Alabama	9	81	(*)		9		(*)
Mississippi	1	57	(*)	1	8	31	(*)
Arkansas	19	249	3, 510		18	31	3
Louisiana		27 17	537	*******	7		
Oklahoma	2	63	86		i	11	3
Texas		142	2,887		(*,	20	(*)
Mountain	27	104	642		1	87	
Montana	7	5	40				
Idaho	6	14	67		1		
Wyoming	3	1				******	
Colorado New Mexico	6	30 11	58			10	*******
Arizona.		25	399		*******	76	
Utah	4	11	13			10	
Nevada		7	64		********	1	********
Pacific	3	486	138		22	9	5
Washington		62	6			2	
OregonCalifornia	2	32	59			3	2
California	1	392	73		22	4	3
(Dhird quarter 1050	264	4 221	8 808	2	164	267	88
Third quarter 1950 Third quarter 1949	300	4, 331 4, 046 6, 311	5, 505 3, 719 3, 719	4	196	405	71
Median 1945-49	308	6.311	3, 719	9	167	372	86
		0,011			201		
Alaska		2	9				
Hawaii		1			6		********
Panama Canal Zone 3		3			5		
Puerto Rico 3					54		
Virgin Islands 3							

<sup>\*</sup>Reported not notifiable. 

<sup>1</sup> Cases reported as septic sore throat included with scarlet fever. 

<sup>2</sup> Four months, May to August. 

<sup>3</sup> From weekly reports, June to September.

3 4 5

nal

#### Reported Cases of Selected Communicable Diseases in the United States, Each Division and State, Third Quarter 1950—Continued

[Numbers under diseases are International List numbers, 1948 revision]

	Tuber	rculosis	m. t.	m	Paraty-	Typhus	7771
Area	All forms (001-019)	Respiratory (001-008)	Tula- remia (059)	Typhoid fever (040)	phoid fever 1 (041)	fever, endemic (101)	Whooping coug (056)
New England	1, 298	1, 148	2	26	24		3, 21
Maine	134	116		5	1		58
New Hampshire	34	58		3			12
Vermont Massachusetta	623	589	2	10	23		35 1,09
Rhode Island	113	101		4			45
Connecticut	311	284	********	3			59
Middle Atlantie	5, 388	3, 104	1	108	28	5	4, 36
New York	3, 325	3, 104		25	16	5	1,73
New Jersey	764 1, 299		1	9 74	3 9	********	1, 27 1, 34
Pennsylvania		0.000	***********				
East North Central	4, 109	2, 300	16	109 45	<b>55</b>		6, 57 1, 42
OhioIndiana	518	481	7	21	3	*******	34
Illinois	1,940	1.819	8	29	i		84
Michigan	1, 416	(*)		12	42		2, 33
Wisconsin	235		1	2	6		1,63
West North Central	1, 844	276	12	46	10		1, 79
Minnesota	670	47	1	2 3	10		34
Iowa Missouri	112 666	3/	8	31			47 39
North Dakota	78	69	ĭ				11
South Dakota	90						4
Nebraska	61	100	2	2 8			6
Kansas	167	160	-			*******	34
South Atlantie	4, 653	3, 876	39	174	58	67	3, 19
Delaware	79 641	79 606	4	10		********	48
District of Columbia	334	316		3	2		7
Virginia	768	754	15	32	2 7	2	49
West Virginia North Carolina	447	431		23	2		551
South Carolina	820	768	5 2	24 36	4	3	1, 04
Georgia.	939	922	10	32	21	52	22
Florida	625		3	12	18	9	12
East South Central	3, 252	1, 498	16	164	18	76	1, 243
Kentucky	1, 150	1, 115	1	76	1	1	36
Tennessee	1, 026 674	(3)	7	47 26	11	10	499
Alabama. Mississippi.	402	383	7	15	6	59 6	302
West South Central	2, 759	1, 604	116	291	31	116	4, 200
Arkansas	517	504	85	55	2	3	322
ArkansasLouisiana	618	591	4	39	2	30	41
Oklanoma	517	509	19	50	8		292
Texas	1, 107	(*)	8	147	22	83	3, 545
fountain	1, 444	989	33	43	14		1, 558
MontanaIdaho	95 44	92	í	4 5	4		203 168
Wyoming	23	22	4	9			42
Colorado	335		1	12	5		313
New Mexico	215	211	1	17	1		314
Arizona Utah	630	616	18	4	3 1		392 115
Nevada	32		1				11
acific	2, 917	2, 372	2	49	121		2, 263
Washington	424			2	13		606
Oregon California	163	153	1	3	3		373
California	2, 330	2, 219	1	44	105		1, 284
Third quarter 1950	27, 664	17, 167	237	1,009	359	264	28, 403
Third quarter 1949	29, 706	17, 167 17, 342 17, 342	308	1, 214	568	338	19, 668
Median 1945-49	29, 706	17, 342	267	1, 214 1, 216	366	612	19, 668 29, 216
laska			1				
laska Iawaii	85		1	3	********		32 11
Panama Canal Zone 1	3 85	# 83		8	2	2	32
Puerto Rico 4	1, 414			20		8	820
	1	1					34

<sup>\*</sup>Reported not notifiable. <sup>1</sup> Includes salmonellosis. <sup>2</sup> Four months, May to August. <sup>2</sup> Canal Zone only for May and June. <sup>4</sup> From weekly reports, June to September.

was reported compared with 4,046 in the same period of 1949 and a 5-year median of 6,311. Cases of septic sore throat totaled 5,505 in this quarter compared with 3,719 in 1949, and a 5-year median of 3,719. The figures for the past 6 years show that while reported cases of scarlet fever have been decreasing, reports of septic sore throat have increased. This relative change is just as evident in the figures for the first quarter of the year which is the period of highest incidence of these streptococcal infections.

#### Other Diseases

gh

Some diseases such as brucellosis, diphtheria, malaria, smallpox, typhoid fever, and typhus fever were reported in smaller numbers for the quarter than for the previous 5-year period. Some are being studied intensively and for most of them various preventive measures are applied.

#### **Additional Diseases**

Figures for additional diseases reported by State health departments in the third quarter of 1950 and not shown in the table are given below. Also included are diseases reported by the Territories and Possessions. Figures for the Panama Canal Zone are for May to August; Puerto Rice (from weekly reports) for June to September; and Virgin Islands for May to August. The numbers in parentheses are from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, World Health Organization, 1948.

Actinomycosis (132): Colorado 2, Georgia 1, Iowa 1, Minnesota 5, New York 1, Pennsylvania 1.

Anthrax (062): Colorado 1, Maryland 1, New Hampshire 1, New Jersey 1, Pennsylvania 7, Texas. 1.

Cancer (140-205): Alabama 1,191, Arkansas 145, Colorado 834, Florida 1,414, Georgia 71, Idaho 271, Kansas 1,218, Louisiana 705, Montana 369, Nevada 6, New Mexico 217, North Dakota 251, Pennsylvania 2,225, South Carolina 78, Tennessee 957, Utah 86, Wyoming 102, Alaska 1, Virgin Islands 2.

Coccidioidomycosis (133): Arizona 30, California 15.

Colorado tick fever (096.9): Colorado 21, Wyoming 2.

Dengue (090): Mississippi 1, Texas 7.

Diarrhea of the newborn (764): California 4, Florida 9, Illinois 17, Kansas 1, Maryland 1, Minnesota 1, New Jersey 1, New Mexico 5, New York 7, Ohio 53, Oklahoma 5, Pennsylvania 2, West Virginia 7.

Diarrhea, unspecified (571): Florida 17, Kentucky 23, Maryland 9, Michigan 19, Minnesota 7, New Mexico 41, New York 35, Ohio 541, Pennsylvania 69, Tennessee 53, Washington 1, Alaska 1.

Encephalitis, myelitis, and encephalomyelitis, except acute infections (343): Colorado 2, Iowa 1, Maryland 3, North Carolina 2, Ohio 8, Utah 2, Washington 2.

Erysipelas (052): Arkansas 2, Connecticut 9, Georgia 3, Idaho 2, Illinois 23, Indiana 2, Kansas 1, Kentucky 1, Louisiana 1, Maryland 1, Michigan 19, Minnesota 1, Missouri 3, Montana 1, Nebraska 1, New Mexico 1, North Dakota 1, Ohio 1, Oregon 6, Pennsylvania 8, Tennessee 7, Wisconsin 7, Alaska 1, Hawaii 4.

Favus (131 part): Nevada 3.

Food poisoning (049.2): California 197, Connecticut 56, Idaho 18, Illinois 102, Indiana 2, Louisiana 6, Minnesota 6, Nevada 17, New Mexico 6, New York 216, Ohio 7, Oklahoma 8, Oregon 5, Pennsylvania 59, Utah 3, Alaska 15, Panama Canal Zone 3.

Glandular fever (infectious mononucleosis) (093): Arizona 11, Connecticut 35, Idaho 2, Kentucky 2, Maryland 5, Michigan 23, Minnesota 97, New Hampshire 1, Oklahoma 6, Pennsylvania 3, Tennessee 12, Washington 4.

Hepatitis, infectious (092): California 103, Connecticut 1, Florida 8, Idaho 5, Illinois 9, Iowa 14, Kansas 1, Kentucky 3, Maryland 8, Michigan 5, Minnesota 407 (Includes 400 cases estimated to have occurred in Stearns County during an outbreak with onset in November 1949), Montana 10, Nevada 2, New York 92, Oregon 34, Pennsylvania 69, Tennessee 53, Washington 1, Alaska 1.

Impetigo (695;766): Colorado 10, Connecticut 5, Idaho 6, Illinois 5, Indiana 3, Iowa 4, Kansas 10, Kentucky 25, Maryland 1, Michigan 125, Missouri 14, Montana 2, Nevada 40, New York 14, North Dakota 6, Ohio 1, Alaska 3, Hawaii 61.

Leprosy (060): California 1, New Jersey 1, New York 2, Texas 7, Hawaii 10, Panama Canal Zone 1.

Meningitis, except meningococcal and tuberculous (034): Colorado 2, Idaho 3, Illinois 33, Indiana 12, Iowa 6, Kentucky 4, Maryland 4, Massachusetts 32, Michigan 5, Minnesota 4, Mississippi 26, New Mexico 3, New York 36, Ohio 18, Rhode Island 11, Utah 1, Vermont 1, Washington 12, West Virginia 1.

Ophthalmia neonatorum (033;765): Arkansas 2, Florida 4, Georgia 2, Illinois 39, Louisiana 2, Massachusetts 29, Michigan 7, Mississippi 8, New Jersey 3, New Mexico 2, New York 7, Ohio 143, Oregon 2, Pennsylvania 3, South Carolina 2, Tennessee 5, Texas 10.

Pellagra (281): Alabama 4, Arizona 1, Arkansas 4, Georgia 20, Louisiana 1, Nevada 2, New Mexico 1, Oklahoma 3, Tennessee 13, Virginia 3.

Plague (050): Arizona 1, New Mexico 1.

Psittacosis (096.2): California 2, Louisiana 1, New York 1.

Rabies (094): Arizona 1, Pennsylvania 3, Tennessee 1, West Virginia 1.

Relapsing fever (071): California 4, Nevada 2, Oregon 2, Texas 4, Panama Canal Zone, 1.

Rickettsialpox (108): New York City 33.

Ringworm of the scalp (131 part): Connecticut 10, Georgia 12, Illinois 89, Indiana 9, Iowa 27, Kansas 17, Kentucky 18, Minnesota 1, Missouri 3, Nevada 6, Ohio 1, Oklahoma 7, Oregon 19, South Carolina 3, Utah 3, Virginia 69, Washington 144, Alaska 1.

Scabies (135): Idaho 9, Kentucky 30, Maryland 1, Michigan 65, Missouri 7, Nevada 13, Pennsylvania 21, Alaska 13.

Schistosomiasis (123): New York 16.

Vincent's infection (070): Colorado 20, Florida 24, Georgia 2, Idaho 12, Illinois 9, Indiana 3, Kansas 3, Kentucky 10, Maryland 4, Nevada 11, New Hampshire 3, Ohio 2, Oklahoma 17, Rhode Island 1, South Dakota 1, Tennessee 14. Weil's disease (072): Michigan 5.

Rabies in animals: Alabama 73, Arizona 2, Arkansas 14, California 27, Colorado 9, Florida 5, Georgia 76, Illinois 20, Indiana 116, Iowa 112, Kansas 10, Kentucky 130, Michigan 60, Mississippi 12, New Mexico 2, New York 327, Ohio 60, Oklahoma 32, Pennsylvania 36, South Carolina 81, Tennessee 51, Texas 216, Virginia 14, West Virginia 27, Wisconsin 7.

23,

19,

Da-

a 1,

102,

ork

15,

35, nire

5, nenty 2,

3, 14, 3,

10,

3, 2, 8,

9, w 2,

1,

8

),

# **Incidence of Disease**

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

### UNITED STATES

#### Reports From States for Week Ending December 9, 1950

#### Influenza

There was an increase in reported cases of influenza for the current week, 3,461, as compared with the previous week when 2,560 cases were reported. States reporting more than 100 cases were: Texas (2,251), Virginia (320), Arizona (186), West Virginia (181), Arkansas (144), and Oklahoma (144). Hawaii, where laboratory tests have shown antibody rise to type A influenza virus, reported 96 new cases for the current week as compared with 30 for the previous week.

## Meningococcal Meningitis

There were 80 new cases of meningococcal meningitis reported for

Comparative Data for Cases of Specified Reportable Diseases: United States
[Numbers after diseases are International List numbers, 1948 revision]

Disease	ended-		dian	Sea- sonal	total	lative since al low ek	5-year median 1944-45			5-year me- dian
	Dec. 9, 1950	Dec. 10, 1949	1945- 40	low week	1949- 50	1948- 49	through 1948-49		1949	1945-49
Anthrax (062) Diphtheria (055) Acute infectious encephalitis	1 132	209	(1) 401	(1) 27th	(1) 2, 573				7, 597	
(082) Influenza (480-483) Measles (085) Meningococcal meningitis	3, 461 3, 008	2, 554 2, 009	2, 813 2, 787		(1) 228, 457 218, 254			953 <sup>2</sup> 274, 716 <sup>2</sup> 306, 425	99,047	
(057.0)	80 1,551 480	1,582		37th (1) 11th	741 (¹) 331, 343	709 (1) 40, 851	709 (1) 24, 296	3 76, 282	73, 049	
Rocky Mountain spotted fever (104)	1 1, 194	1, 461	2, 116	(1) 32d 35th	(1) 11, 673	(1) 12, 850	(1) 16, 879 13	452 51, 843 37		
Tularemia (059) Typhoid and paratyphoid	16		32	(1)	(1)	(1)	(1)	841	1,040	96
fever (040, 041) 4. Whooping cough (056)	54 1, 967	2, 227	2, 252	39th	\$ 2,798 16,964	3, 249 16, 954	3, 249 17, 880		3, 737 63, 556	

<sup>&</sup>lt;sup>1</sup> Not computed. <sup>2</sup> Additions, week ended Dec. 2: Nebraska, influenza, 3 cases and measles, 3; Tennessee, pneumonia, 34 cases. <sup>3</sup> Addition: Iowa, delayed report, 7 cases. Deductions: Maine, week ended Sept. 30, 1 case; Georgia, week ended Dec. 2, 1 case. <sup>4</sup> Including cases reported as salmonellosis. <sup>3</sup> Deduction: North Carolina, week ended July 29, 1 case.

the current week as compared with 56 cases for the same week last year. The cumulative total for 1950 is 3,540 as compared with 3,253 for the same period in 1949.

#### Other Diseases

ni

at

lS

IS

re

S

r

A total of 3,008 cases of measles was reported for the current week, and of these, 924 were reported in the East North Central States. New cases of tularemia decreased from 23 for the previous week to 16 for the current week. Poliomyelitis decreased nearly 20 percent from the previous week (597 to 480). The cumulative total for 1950 is 32,474 as compared with 41,764 for the same period last year.

#### Report of Epidemic

A release by Dr. J. C. Geiger, Director of Public Health in San Francisco, reports a diphtheria episode in the San Francisco Hospital. On November 4, 1950, a 39-year-old man was admitted to a 50-bed ward. One week later he developed sore throat and a fever. A throat culture showed a virulent strain of the mitis type of the diphtheria bacillus. The patient was Shick positive. Two mild secondary cases developed—one was a nurse— both of whom were Shick positive. Seven other persons—one an intern—were found to be carrying the organism, and all were Shick negative.

# Deaths During Week Ended Dec. 9, 1950

Data for 94 large cities of the United States:	Week ended Dec. 9, 1950	Corresponding week, 1949
Total deaths	9, 682	9, 535
Median for 3 prior years	9, 535	
Total deaths, first 49 weeks of year	448, 990	449, 379
Deaths under 1 year of age	716	701
Median for 3 prior years	700	
Deaths under 1 year of age, first 49 weeks of		
year	30, 655	32, 066
Data from industrial insurance companies:		
Policies in force	69, 616, 911	69, 975, 135
Number of death claims	12, 995	13, 288
Death claims per 1,000 policies in force, annual		
rate	9. 7	9. 9
Death claims per 1,000 policies, first 49 weeks of		
year, annual rate	9. 2	9. 1

### Reported Cases of Selected Communicable Diseases: United States, Week Ended Dec. 9, 1950

[Numbers under diseases are International List numbers, 1948 revision]

Area	Diph- theria	Encepha- litis, in- fectious	Influenza (480-483)	Measles (085)	Meningitis, meningococcal	Pneu- monia	Polio- myelitis (080)
	(000)	(002)	(400-400)	(080)	(007.0)		
United States	132		3, 461	3, 008	80	1, 551	480
New England	7 2		1	89 1	5	55 2	11
Maine New Hampshire	3	*********	********		*********		
Vermont	2	2		25 49	4		10
MassachusettsRhode Island		-		6			
Connecticut			1	8	1	53	1
Middle Atlantic	7	5	2	532	12	469	84
New York	3		11	214	11	357	62
New Jersey Pennsylvania	4		1	87 231	1	64 48	15
Chio	11 5	2	34	924 168	10	115	108
Indiana	0		19	14		13	8
Illinois	3	1	1	270	3	40 44	21
Michigan Wisconsin	3	1	5 8	138 334	1 3	18	13
						449	62
West North Central Minnesota			21	267 52	8 3	147	10
Iowa					1	2	6
Missouri North Dakota	2		3 10	109	3	18 115	8
South Dakota			10	7			28
Nebraska					********		6
Kansas			7	92	1	6	
South Atlantic	24		563	207	17	211	62
Delaware			1	5 3	1	31	1 4
District of Columbia			î	4		24	1
Virginia	2 3		320 181	99	5 2	115	11
North Carolina	6			19	5		12
South Carolina	5		37	1	1	7	2 9
GeorgiaFlorida	5 3		22	49	1 2	18	18
East South Central	27	1	53	75	12 5	66 18	13
Tennessee	4		31	32	3		6
Alabama	12	1	17 5	36	2 2	26 22	6
		1 1					
West South Central	38	4	2, 539	213	9	393 34	28
ArkansasLouisiana	1	1	144	20		30	11
Oklahoma	4	1	144	40	1	30	4
Texas	32	2	2, 251	149	8	299	10
Mountain	1		231	282		47	16
Montana			10	21 39	*******		i
				3			
Colorado			21	151		31	3 7
New Mexico	·····i		186	24 14	********	6 9	5
Utah		*********	1	26			
Nevada				4	*********	1	
Pacific	12	6	17	419	7	48	88
Washington	2	1 .	10	166 24	3	10	19 11
Oregon	10	5	7	229	4	28	58
Alaska						2	2
			2	1			

<sup>&</sup>lt;sup>1</sup> New York City only.

Anthraz: Massachusetts, 1 case.

# Reported Cases of Selected Communicable Diseases: United States, Week Ended Dec. 9, 1950—Continued

[Numbers under diseases are International List numbers, 1948 revision]

Area	Rocky Moun- tain spotted fever	Scarlet fever	Small- pox	Tulare- mia	Typhoid and para- typhoid fever 1	Whooping cough	Rables in animals
	(104)	(050)	(084)	(059)	(040, 041)	(056)	
United States	1	1, 194		16	54	1, 967	101
New England		129 19	*******		2	313 50	
Maine	******	3				1	
New Hampshire Vermont		8				72	
Massachusetts		82			1	93	
Rhode Island		2			1	43	
Connecticut		15				54	
Middle Atlantic		179			5	342	25
New York		2 88			4	134	22
New Jersey		21			1	135	
Pennsylvania		61				73	3
East North Central		322		4	6	445	9
Ohio		90		1	1	65	4
Indiana		32		2		69	
Illinois		47		1	3	31	1
Michigan		117		******	2	156	4
Wisconsin	******	36		*******		124	********
West North Central		82			3	113	5
Minnesota		14				33	1
Iowa		27				24	4
Missouri		12			1	10	*******
North Dakota		2 2				4	
		10	********	*********			*********
Nebraska Kansas	******	15			1	39	
				6	6	293	11
South Atlantie	1	164				6	**
Delaware		7			1	23	
District of Columbia	1	6				3	
Virginia		33		4		122	1
* AL MASSAGE		10			1	38	
North Carolina		76		1	1	54	
South Carolina		5			1	.7	4 6
Georgia		15		1	2	15 24	
Florida		10			*******		
East South Central		99		5	5	50	17
Kentucky		26	*******			8 32	7 8
		44		3	3	32	2
		19 10		2	2	1	-
TAT STATE OF THE PARTY OF THE P	*******			-	_		
		76			13	236 48	33
Arkansas		4			1 5	10	-
		17 22	********	********	0	18	2
		33			6	160	29
				1	2	118	-
Mountain		57			-	28	********
ATA CAR COLOR		15	*********			20	
IdahoWyoming		10	*********	********		10	
Colorado		10		1		19	
		5				29	****
Arizona			******		2	31	
		19				1	
Nevada		1					********
Pacific		95			13	58	1
Washington		69			2	13	
OregonCalifornia		21			2 9	11 34	1
California	*******	5		*******	Ŋ	34	*******
Alaska							
Hawaii		1					

9

Including cases reported as salmonellosis.
 Jucluding cases reported as streptococcal sore throat,

# FOREIGN REPORTS

#### CANADA

Reported Cases of Certain Diseases—Week Ended November 25, 1950

Disease	New- found- land	Prince Ed- ward Island	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Al- berta	Brit- ish Co- lum- bia	Total
Brucellosis Chickenpox Diphtheria Dysentery, bacillary	2		76	4 2	3 219 3 2	510	1 85	150	135	111	1, 292
German measles			18	3	12	48		12	19	45	157
Influenza			90		344	787	35	30	10	45	97 1, 268
Measles Meningitis, menin-	4		13		344	181	95	30	10	4.0	1, 208
gococcal			1	1		2			1	1	6
Mumps			11	1	107	280	47	102	182	165	913
Poliomyelitis	2	******		i	79	39	21	21	76	41	280
Tuberculosis (all				-						-	
forms)	25		10	3	43	24	15	8	11	38	177
Typhoid and para- typhoid fever					9		1	1			11
Venereal diseases:											
Gonorrhea	4		8	4	94	70	29	15	42	71	337
Syphilis (total)			5	3	48	19	5	10	4	10	107
					10	3		4	1		18
Secondary	3			3	34	15	5	6	3	10	84
Whooping cough	3		13	9	66	156	10	6	2	31	294

#### FINLAND

#### Reported Cases of Certain Diseases—October 1950

Discase	Cases	Disease	Cases
Diphtheria Dysentery Meningitis, meningococcal Paratyphoid fever Poliomyelitis	48 1 12 122 70	Scarlet fever Typhoid fever Venereal diseases: Gonorrhea Syphilis.	2, 693 7 647 45

#### NORWAY

#### Reported Cases of Certain Diseases—September 1950

Disease	Cases	Disease	Cases
Anthrax Diphtheria Dysentery, unspecified. Encephalitis, infectious Erysipelas Gastroenteritis Hepatitis, infectious Impetigo contagioso Influenza Malaria Measles Meningitis, meningococcal	1 31 1 2 370 3, 820 102 2, 285 3, 189 2 220 111	Paratyphoid fever Pneumonia (all forms) Poliomyelitis Rheumatic fever Scables Scarlet fever Tuberculosis (all forms) Typhoid fever Venereal diseases: Gonorrhea Syphilis Other forms Whooping cough	1, 76 23 8 87 13 27 22 6

# WORLD DISTRIBUTION OF CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

The following tables are not complete or final for the list of countries included or for the figures given. Since many of the figures are from weekly reports, the accumulated totals are for approximate dates.

#### **CHOLERA**

(Cases)

-	January-	October	Novem	nber 1950	-week e	nded-
Place	Septem- ber 1950	1950	4	11	18	25
ASIA						
Burma	467	59	14	56	175	
Akyab	2					
Bassein	3				******	*****
Kyaukpyu	2					
Maubin	3					
Moulmein	1					
Pegu	1					
Rangoon	6					1 1
Toungoo	8					
India	116, 104	20, 917	2 2, 831	1 1, 582	2 292	2 81
Ahmedabad	10					
Allahabad	3					
Bombay	8 429	11				
Calcutta	9,057	105	29	53	45	46
Cawnpore	1					*******
Cocanada	2					
Cuddalore	38	13	1	1	1	1
Lucknow	12					
Madras	3 265	620	48	49	22	25
Masulipatam	47					
Nagpur	60	11			******	
Negapatam	98		4	7	7	1
New Delhi	125					
Port Blair (Andaman Islands)	12					
Tellicherry	27					
Tiruchirappali	1		3	2	10	8
Trichinopoly	1					
Tuticorin	26					
India (French)	1, 152	20	22	7	8	
Karikal	390	15	14	7	8	
Pondicherry	762	5	8			
ndia (Portuguese)	17					
Indochina:					1	
Cambodia	5	4		6		
Viet Nam	15					
Giadinh	3				*******	******
	1		*******	*******		
Rachgia	1			******		
Saigon	23, 817	688	318	13	1 20	
Pakistan	186	080	310	- 0	20	*******
Chittagong	192	*******			******	*******
Dacca	192	*******			******	******

<sup>1</sup> Imported.

il

7

12683871

#### PLAGUE

(Cases)

			1	1	1	1
AFRICA						
Belgian Congo	28	2				
Costermansville Province	14					
Stanleyville Province	14	2				
Madagascar	56	20		17		
Rhodesia, Northern	2					
Union of South Africa	11	6		*******		
	11	2		******		
	8	0				
Orange Free State	8	3				
Transvaal Province	1					
Johannesburg	1	********	******			******
ASIA						
Burma	241	12	2	4	3	
Bassein	1					
Bhamo	2.4					
Henzada	15					
Kvaiklat	34					
W:-11-	2					
Monlmein	23		*******	*******	*******	

<sup>&</sup>lt;sup>3</sup> Preliminary.

Includes imported cases.

Place	January- Septem-	October	Nover	nber 1950	-week e	nded-
Fiaoe	ber 1950	1950	4	11	18	25
ASIA—continued						
Burma—Continued						
Myaungmya	5					
Myingyan	2					
Pegu	15					
Prome	31					
Pyapon	F 3					****
Rangoon	1.8					
Yenangyaung	58					
china:	1					
Chekiang Province	42					
Wenchow	4.4					
Fukien Province	988					
Amoy	10			******		
Kwangsi Province	4 63					
Kwangtung Province	627					
ndia	38, 753	1, 464	5 273	* 91	5 63	
Allahabad	3 19					
Bombay	2 5					
Calcutta	23					
Cawnpore	18					
Lucknow	3 10					
ndochina:						
Cambodia	6 46					
Pnompenh	3					
Viet Nam	112	9	4	3	3	
Phanthiet.	82	9			3	
	82 1					
Phanthiet. Saigon. Laos.	82					
Phanthiet. Saigon. Laos.	82 1 2	9				*****
Phanthiet. Saigon. Laos.	82 1					
Phanthiet Saigon Laos donesia; Java	82 1 2 237 6	9				
Phanthiet. Saigon Laos. adonesia;	82 1 2 237 6 3	9				
Phanthiet. Saigon Laos. adonesia: Java Bandoeng	82 1 2 237 6	9				
Phanthiet. Saigon Laos. adonesia: Java Bandoeng Djakarta Jogjakarta	82 1 2 237 6 3 228	9				
Phanthiet Saigon Laos adonesia: Java Bandoeng Djakarta Jogjakarta	82 1 2 237 6 3 228	9				
Phanthiet Saigon Laos adonesia; Java Bandoeng Djakarta Jogjakarta akistan Karachi	82 1 2 237 6 3 228	9				
Phanthiet Saigon Laos. adonesia: Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand	82 1 2 237 6 3 228 31	9				
Phanthiet Saigon Laos .donesia: Java Bandoeng Djakarta akistan Karachi hailand	82 1 2 237 6 6 3 3 228 3 1 3 1 56	9				
Phanthiet Saigon Laos Laos donesia: Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand SOUTH AMERICA	82 1 2 237 6 3 228 3 1 8 1 56	9				
Phanthiet Saigon Laos . Idonesia: Java Bandoeng Djakarta Jogiakarta akistan Karachi hailand . SOUTH AMERICA Alagoas State	82 1 2 237 6 3 228 3 1 3 1 56	9				
Phanthiet Saigon Laos donesia: Java Bandoeng Djakarta Jogiakarta akistan. Karachi hailand 80UTH AMERICA Fazil Alagoas State Bahia State Bahia State	82 1 237 6 3 228 3 1 3 1 56	9				
Phanthiet Saigon Laos . donesia: Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand . BOUTH AMERICA razil Alagoas State Bahla State Ceara State	82 1 2 237 6 3 228 3 1 3 1 56	9				
Phanthiet Saigon Laos .donesia: Java Bandoeng Djakarta akistan Karachi hailand  BOUTH AMERICA TAZII Alagoas State Bahia State Ceara State Paraiba State Paraiba State	82 1 2 237 6 3 228 3 1 3 1 56	9				
Phanthiet Saigon Laos . donesia: Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand  BOUTH AMERICA razil Alagoas State Bahia State Ceara State Paraiba State Paraiba State Pernanbuco State	82 1 2 237 6 3 3 228 3 1 3 5 6 3 3 20 8 9 9 2 5 8	9				
Phanthiet Saigon Laos . Idonesia: Java Bandoeng Djakarta Jogiakarta akistan Karachi hailand  SOUTH AMERICA razil Alagoas State Bahia State Ceara State Paraiba State Pernambuco State Sao Paulo State: Santos	82 1 2 237 6 3 3 228 3 1 56 33 8 9 9 2 5 5 8	9				
Phanthiet   Saigon   Laos	82 1 2 237 6 3 3 228 3 1 3 56 3 3 8 9 2 5 8 8 9 2 7 7	9				
Phanthiet Saigon Laos Laos donesia: Java Bandoeng Djakarta. Jogjakarta akistan Karachi hailand BOUTH AMERICA razil Alagoas State Bahia State Ceara State Paraiba State Paraiba State Sao Paulo State: Sao Paulo State: Sao Paulo State: Sanos Chimborazo Province	82 1 2 237 6 3 228 3 1 56 33 8 9 9 2 5 5 8 1 27 7	9				
Phanthiet Saigon Laos .donesia: Java Bandoeng Djakarta Joglakarta akistan Karachi hailand  BOUTH AMERICA razil Alagoas State Bahia State Ceara State Pernambuco State Pernambuco State Sao Paulo State: Santos cuador Chimborazo Province El Oro Province	82 1 2 237 6 3 3 228 3 1 3 1 5 6 3 3 3 2 2 8 3 1 2 2 8 3 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9				
Phanthiet Saigon Laos. adonesia: Java Bandoeng Djakarta Alogjakarta akistan Karachi halland BOUTH AMERICA razil Alagoas State Bahia State Ceara State Paraiba State Paranbuco State Sao Paulo State: Sao Paulo State: San Paulo State: Chimborazo Province El Oro Province Loja Province	82 1 2 237 6 3 3 228 3 1 56 3 3 3 8 9 9 2 5 8 8 1 2 7 4 4 7 19	9				
Phanthiet Saigon Laos . Idonesia: Java Bandoeng Djakarta Joglakarta akistan Karachi hailand  SOUTH AMERICA razil Alagoas State Bahia State Ceara State Pernambuco State Pernambuco State Sao Paulo State: Santos cuador Chimborazo Province El Oro Province Loja Province	82 1 2 237 6 3 3 228 3 1 5 5 6 3 3 3 8 9 9 2 2 5 8 8 1 2 7 7 4 4 4 7 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	9				
Phanthiet Saigon Laos .donesia: Java Bandoeng Djakarta Jajakarta akistan Karachi hailand South America razil Alagoas State Bahia State Ceara State Paraiba State Pernambuco State Sao Paulo State: Sao Paulo State: Sao Paulo State: Lador Chimborazo Province El Oro Province Loja Province Loja Province Loja Province eru Ancash Department	82 1 2 237 6 3 3 228 3 1 3 56 3 3 3 8 9 2 2 5 8 8 2 7 4 4 7 19 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9				
Phanthiet Saigon Laos . ldonesia; Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand . SOUTH AMERICA razil Alagoas State Bahia State Ceara State Paraiba State Paraiba State Pernambuco State Sao Paulo State: Santos cuador Chimborazo Province El Oro Province Loja Province Loja Province eru Ancash Department Lambayeque Department Lambayeque Department	82 1 2 237 3 3 228 3 1 56 33 8 9 9 2 5 5 8 1 27 4 4 4 7 19 28 3 3 2 4 4 7	9				
Phanthiet Saigon Laos .donesia: Java Bandoeng Djakarta Joglakarta akistan Karachi hailand  BOUTH AMERICA  razil Alagoas State Bahia State Ceara State Pernambuco State Sao Paulo State: Santos cuador Chimborazo Province El Oro Province El Oro Province Loja Province	82 1 2 237 6 3 3 228 3 1 3 1 5 6 3 3 3 2 7 4 7 19 28 3 1 27 4 4 7 19 29 29 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	9				
Phanthiet Saigon Laos.  Idonesia: Java Bandoeng Djakarta Jogjakarta akistan Karachi hailand  SOUTH AMERICA  razil Alagoas State Bahia State Ceara State Paraiba State Paraiba State Sao Paulo State: Sao Paulo State: Santos cuador. Chimborazo Province El Oro Province Loja Province Loja Province eru Ancash Department Lima Department Libertad Department Libertad Department Libertad Department Libertad Department	82 1 2 237 6 3 3 228 3 1 56 33 8 9 9 2 5 8 1 1 27 4 4 4 7 19 28 3 28 3 1 1 27 4 1 1 27 4 4 4 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1	9				
Phanthiet Saigon Laos. adonesia; Java.  Bandoeng Djakarta Joglakarta Joglakar	82 1 2 237 6 3 3 228 3 1 5 5 6 3 3 3 8 9 9 2 2 5 7 4 4 7 19 2 8 3 1 1 2 7 4 4 7 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	9				
Phanthiet Saigon Laos.  Laos.  Java Bandoeng Djakarta Jogjakarta akistan Karachi halland SOUTH AMERICA  razil Alagoas State Bahla State Ceara State Paraiba State Paraiba State Sao Paulo State: Santos cuador Chimborazo Province El Oro Province Loja Province El Oro Province Loja Province eru Ancash Department Lima Department Libertad Department Libertad Department Libertad Department Libertad Department	82 1 2 237 6 3 3 228 3 1 56 33 8 9 9 2 5 8 1 1 27 4 4 4 7 19 28 3 28 3 1 1 27 4 1 1 27 4 4 4 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 1 2 1 1 2 1 1 1 1 2 1 1 1 1 2 1	9				

 $<sup>^1</sup>$  Nov. 1-10, 1950.  $^3$  Includes imported cases.  $^3$  Imported.  $^4$  Deaths.  $^4$  Preliminary figures.  $^4$  Includes suspected cases.  $^7$  Corrected figure.

#### SMALLPOX

(Cases)

				1	1
	7		1.5		
270					******
	400				13
3, 617	497	149	80	01	10
10					
	9	3	4	2	
4, 104	347				
	101 270 122 3,617 12 256 4,104	270 122 3, 617 497 12 256 9	270 122 3, 617 497 149 12 256 9 3	270 122 3,617 497 149 85 12 256 9 3 4	270 122 3,617 497 149 85 57 12 256 9 3 4 2

Place	January- Septem- ber 1950	October 1950	November 1950—week ended—				
			4	11	18	25	
AFRICA—continued							
Cameroon (British	- 424	11					
Cameroon (French)	94	32	*******	17			
Oahomey	346	57		13	23		
gypt	34	2					
ritrea	1						
thiopia	36						
rench Equatorial Africa	454						
rench Guinea rench West Africa: Haute Volta	12	9	******	11			
ambia	208	8	******		******		
old Coast	248	6	3		6		
vory Coast	649	7					
ibya	2						
fauritania	1						
Iorocco (French)	10			11	12		
fozambique	262	57					
igeria	15, 990	860			******		
iger Territory	1,092	43		15			
hodesia: Northern	5						
Southern	629	74	******		*******	******	
enegal	2	1 12	*******	******	*******		
erra Leone	31						
ndan (Anglo-Egyptian)	74	2	1	2	1		
idan (French)	216	10					
ogo (French)	102						
unisia	1						
nion of South Africa	647	20	5	2			
ASIA							
ghanistan	337 336	53	*******	******	******	*****	
rabiaBahrein Islands: Bahrein	36		******	******			
Kamaran Island: Kamaran	4 2		*******	******			
urma	5, 016	31					
eylon	12			41			
hina	757	20					
dla.	122, 800	3, 290	# 562	\$ 667	# 233		
dia (French)	367	107	32	31	24		
dia (Portuguese)	96 • 319	5 13			7		
donesia:							
Borneo	876	92	73				
Java	7, 220	318	45	30			
Sumatra	345	19	12	6	7		
An	273 3 160	24	10	9	5		
ael	16	24	10				
pan	6		*******		*******		
orea (Republic of)	1, 331						
banon	8 2			******			
etherlands New Guinea	3						
kistan	15, 852	678	226	1 36	# 36		
destineraits Settlements:	95			******		****	
Singapore	3 2						
Tia	15						
nailand	460						
ansjordan	35						
arkey (See Turkey in Europe.)							
eat Britain:							
England: Liverpool	4.1						
Scotland: Glasgow	21						
reece	15				******		
	1 1						
ortugal				*******		*****	
ortugal ain: Canary Islands	8						
ortugal oain: Canary Islands irkey							
ortugal sain: Canary Islands	8				******		
ortugal ain: Canary Islands	8			*******			
rtugal ain: Canary Islands	8 7 506	*********		*******	*******		
ortugal sain: Canary Islands	8	1	1	6	******		

d-

25

I

2

. . . . )

Place	January- Septem- ber 1950	October 1950	November 1950—week ended—				
			4	11	18	25	
SOUTH AMERICA—Continued							
EcuadorParaguay	155	18	2			******	
Peru Venezuela	2, 680 1, 526					******	
OCEANIA							
Australia: Freemantle	41						

 $<sup>^1</sup>$  Nov. 1–10, 1950.  $^2$  Nov. 11–20, 1950.  $^3$  Includes imported cases.  $^4$  Imported.  $^5$  Preliminary figures.  $^6$  Corrected figure.

#### TYPHUS FEVER\*

(Cases; P=Present)

		1	1	1	1	1
AFRICA						
Algeria	108	1		12		
Basutoland	24			-		******
Belgian Congo	2 88	3 2				******
British East Africa:	1	-				
Kenya	23					
Mombasa	\$ 3					
Uganda	2					
Egypt	89				1	
Eritrea	29		9	1		*****
Ethiopia	1,046		-			
French Equatorial Africa	5		*******			
Gold Coast	9	1				
Libya:						
Cyrenaica	27	1				
Tripolitania	71					******
Madagascar	2 2					
Morocco (French)	9	*	******	******		
Morocco (International Zone)	1	1				
Morocco (Spanish Zone)	6	1			******	******
Mozambique	3	*******	******	******		
Nigeria	1					
Rhodesia, Southern	2 7		******			
Sierra Leone	8.5					
Budan (Anglo-Egyptian)	4					******
	59	1			*****	
Tunisia Union of South Africa	75	P	P			******
omon of South Africa	10	I.	I.			
ASIA		1				
Afghanistan	1, 299	4				
Burma	2 15	*				
Ceylon	1					
Ohina	\$ 20		******			*****
ndia	301	16				
ndia (Portuguese)	47	7			*******	
ndochina	4 32	2				
ndonesia:	- 04	-	******			
Java	6					
Sumatra	1					
ran.	2 193	10	1	2	9	
raq	130	10		-	4	
apan	2 927	*******	*******			
Korea (Republic of)	3 4 1, 161	********				
ebanon.	2 2					******
Netherlands New Guinea	2					
Pakistan	98	**********				
Palestine	7	1				
traits Settlements: Singapore	18		******	*****		
veig	2 39					
yria rausjordan	4 28			*****	*******	*****
urkey (see Turkey in Europe).	* 28		******			
armed (see rathed in Editore).						
EUROPE						
rance	1					
ermany (British Zone)	12					
ermany (French Zone)	2				******	
ermany (United States Zone)	3					
reat Britain:	0		*******			
England: Liverpool	881					
Island of Malta 2	35				******	
	90					

Place	January-	October	November 1950—week ended—				
	Septem- ber 1950	1950	4	11	18	25	
EUROPE—continued							
Greece	28	********					
Hungary	4						
Italy	47						
Sicily	36						
Poland	37						
Portugal	2						
Spain	43						
Turkey	161	13	3	3	6	7	
Yugoslavia	252				******		
NORTH AMERICA							
Costa Rica 9	15	2					
Guatemala	30						
famaica 4	29	1		1			
Mexico 3	342	2					
Panama Canal Zone 2	3						
Puerto Rico 2	4.17	1	1				
Virgin Islands	1						
SOUTH AMERICA							
Argentina	2						
Chile	124	4	2	2	1	1	
Colombia	489	19					
Curação	3						
Ecuador	255	8					
Peru	1, 089	-					
Venezuela	128					*******	
OCEANIA							
Australia s	4 103		1				
Hawaii Territory 3	6		-	1			
aminus a versity	0						

<sup>\*</sup>Reports from some areas are probably murine type, while others include both murine and louse-borne types.

1 Nov. 1-10, 1950.
2 Includes murine type.
3 Murine.
4 Corrected figure.
5 Imported.

#### YELLOW FEVER

(C-cases; D-deaths)

1 1 1 1 1 1 1 2 3 2 1 1 1	3 1 2	1	1		
* 2		1	1		*******
* 2		1	1		
* 2		1	1		
* 2		1	1		
* 2		1	1		
1	12				
11	*******				
11					
1	1				
27		11			
1					
			11		
12					
11					
11					
12					
12					
-1					
867					
4 850					
8 17					
2					
1					
1					
ī					
î					
	\$2 \$1 \$1 \$1 \$2 \$2 \$2 \$2 \$1 \$1 \$1 \$1 \$2 \$2 \$2 \$2 \$2 \$1 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4	1	1	1	1 11 11 11 11 11 11 11 11 11 11 11 11 1

#### YELLOW FEVER-Continued

Place	January- Septem- ber 1950	October 1950	November 1950—week ended—				
			4	11	18	25	
SOUTH AMERICA—continued							
ColombiaD	4						
Magdalena DepartmentD	1						
Los Angeles, Rio de OroD	1						
Putumayo CommissaryD	l ī						
Mocoa LocalityD	l î						
Santander DepartmentD	l î					******	
Ocana	i			*******			
Peril						*****	
	0	2				*****	
	1 1						
	1					******	
Huanuco DepartmentD	5	1					
Tingo MariaD	5	1					
Junin DepartmentD	1						
San RamonD	1						
Loredo DepartmentD	1						
Puealpa D	1						
San Martin DepartmentD	4						
BellavistaD	i						
Juanjui D	î	********					
LamasD	1 1					******	
	1 :						
TarapotoD	1			******		******	
VenezuelaD		2		1			
Bolivar StateD		2				******	
ArgeliaD	*******	1	******			*****	
La Parida		1					
Tachira State				1			

<sup>&</sup>lt;sup>1</sup> Suspected. <sup>2</sup> Includes suspected cases. <sup>3</sup> Imported. <sup>4</sup> Estimated number of cases reported in an outbreak in Asero Province Jan. 1-Mar. 14, 1950. <sup>5</sup> Outbreak in North and South Yungas Provinces.

The printing of this publication has been approved by the Director of the Bureau of the Budget (August 10, 1949).

The Public Health Reports, first published in 1878 under authority of an act of Congress of April 29 of that year, is issued weekly by the Public Health Service through the Division of Public Health Methods, pursuant to the following authority of law: United States Code, title 42, sections 241, 245, 247; title 44, section 220.

an

It contains (1) current information regarding the incidence and geographic distribution of communicable diseases in the United States, insofar as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other important communicable diseases throughout the world; (2) articles relating to the cause, prevention, and control of disease; (3) other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports is published primarily for distribution, in accordance with the law, to health officers, members of boards or departments of health, and other persons directly or indirectly engaged in public health work. Articles of special interest are issued as reprints or as supplements, in which forms they are made available for more economical and general distribution.

Requests for and communications regarding the Public Health Reports, reprints, or supplements should be addressed to the Surgeon General, Public Health Service, Washington 25, D. C. Subscribers should remit direct to the Superintendent of Documents, Washington 25, D. C.

Librarians and others should preserve their copies for binding, as the Public Health Service is unable to supply the general demand for bound copies. Indexes will be supplied upon request.

+++

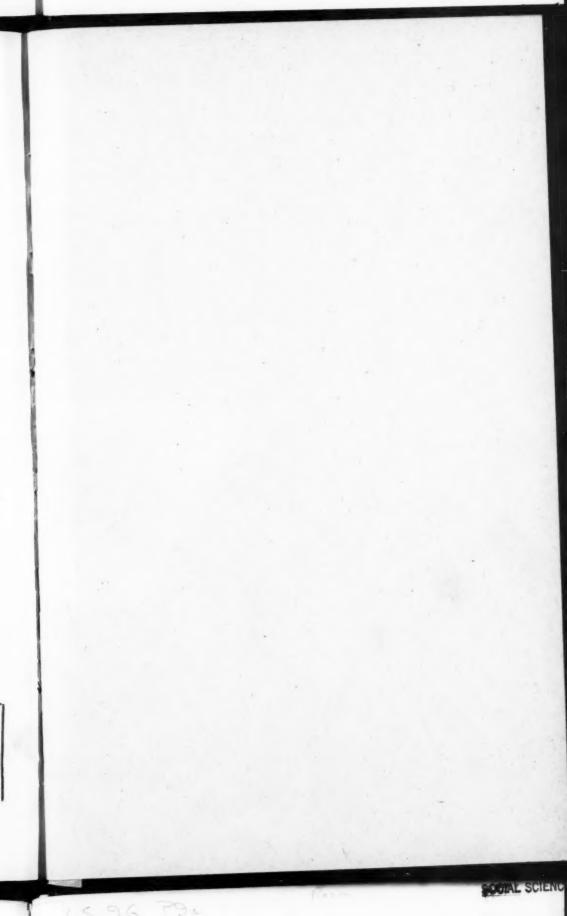
UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C. : 1950

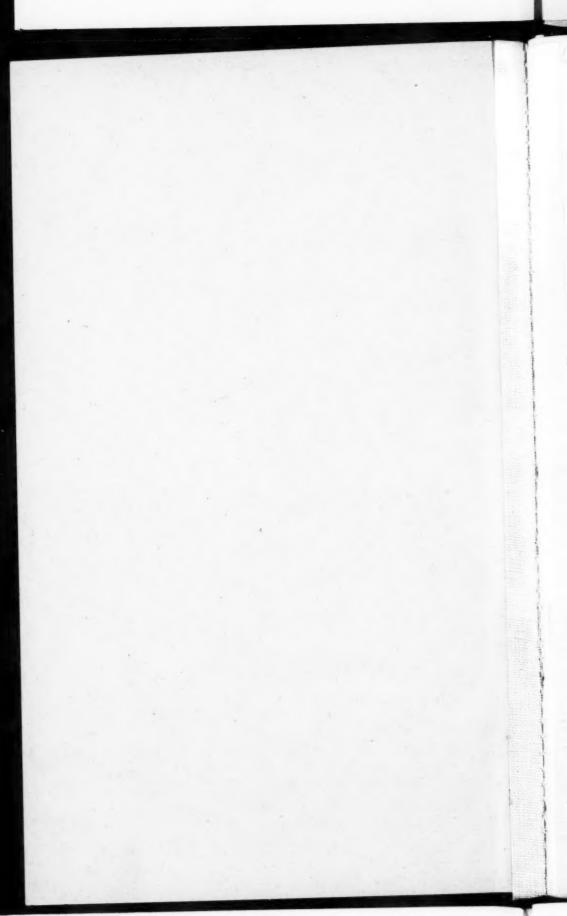
For sale by the Superintendent of Documents, United States Government Printing Office, Washington 25,
D. C. Price 10 cents. Subscription price \$4.00 a year.

PUBLIC LIBRARY

JAN 1 6 1251

DETROIT





# Public Health Reports

Issued Weekly by the PUBLIC HEALTH SERVICE

Index
Volume 65—Part II
Nos. 27–52
July–December 1950



FEDERAL SECURITY AGENCY

PUBLIC HEALTH SERVICE

#### FEDERAL SECURITY AGENCY

Oscar R. Ewing, Administrator

#### PUBLIC HEALTH SERVICE

Leonard A. Scheele. Surgeon General

Division of Public Health Methods G. St. J. Perrott, Chief of Division

The printing of this publication has been approved by the Director of the Bureau of the Budget (August 10, 1949).

The Public Health Reports, first published in 1878 under authority of an act of Congress of April 29 of that year, is issued weekly by the Public Health Service through the Division of Public Health Methods, pursuant to the following authority of law: United States Code, title 42, sections 241, 245, 247; title 44, section 220.

It contains (1) current information regarding the incidence and geographic distribution of communicable disease in the United States, insofar as data are obtainable, and of cholera, plague, smallpox, typhus fever, yellow fever, and other important communicable diseases throughout the world; (2) articles relating to the cause, prevention, and control of disease; (3) other pertinent information regarding sanitation and the conservation of the public health.

The Public Health Reports is published primarily for distribution, in accordance with the law, to health officers, members of boards or departments of health, and other persons directly or indirectly engaged in public health work.

Requests for and communications regarding the Public Health Reports and reprints should be addressed to the Surgeon General, Public Health Service, Washington 25, D. C. Subscribers should remit direct to the Superintendent of Documents, Washington 25, D. C.

Librarians and others should preserve their copies for binding, as the Public Health Service is unable to supply the general demand for bound copies. Indexes will be supplied upon request.

UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON: 1952

For sale by the Superintendent of Documents, U. S. Government Printing Office Washington 25, D. C. Index, 15 cents. Subscription price, \$4.25 a year, 75 cents additional for foreign mailing; single copies vary in price.

# Public Health Reports Subject Index

## Key to Dates and Pages

No.	Date of issue	Pages	No.	Date of issue	Pages
27	July 7	851-874	40	Oct. 6	1275 1314
28	July 14	875-901	41	Oct. 13	1315-1350
29	July 21	903-930	42	Oct. 20	1351-1382
30	July 28	931 - 962	43	Oct. 27	1383-1418
31	Aug. 4	963-1002	44	Nov. 3	1419-1460
32	Aug. 11	1003-1038	45	Nov. 10	1461-1492
33	Aug. 18	1039-1074	46	Nov. 17	1493-1536
34	Aug. 25	1075-1110	47	Nov. 24	1537 - 1572
35	Sept. 1	1111-1146	48	Dec. 1	1573-1608
36	Sept. 8	1147-1174	49	Dec. 8	1609 - 1656
37	Sept. 15	1175-1201	50	Dec. 15	1657-1708
38	Sept. 22	1203-1233	51	Dec. 22	1709-1735
39	Sept. 29	1235-1274	52	Dec. 29	1737-1764

#### A

Absenteeism:
Causes of, in New Haven schools. Follow-up after 21 years [Linde,
Gelperin, and Granoff]
Industrial sickness
Accidents, home
ACTH: See Cortisone and
Addicts, morphine: See Dental caries and
Administration in public health
Age distribution of diphtheria in the United States, trends in [Dauer]
Agents, surface-active: Bactericidal effect on tubercle bacilli
Agglutination test for brucellosis, certain factors affecting
Aging and public health
Aging conference, national [Tibbitts]
Air pollution
Alkalescens-Dispar group [Ewing, Taylor, and Hucks]
Allergy, nonspecific, in sensitivity to tuberculin
American Public Health Association report, 78th annual meeting: See Public Health: 1950.
Anthrone blood sugar method
Antigen group, new coli-O
Antitoxin: Influence of type and concentration, on the in vitro toxigenicity test for C. diphtheriae
Arthritis as a public health problem [Scheele]

	;
Atomic energy	. 1
Australorbis glabratus, field tests against, in Puerto Rico	
В	
Bactericides: Quaternary ammonium compounds	
BCG vaccine licensure. Editorial [Anderson]	
Beds, tuberculosis, index of	
Biological warfare 151	
Blood typing, mass	
Brucella, use of the chick embryo for isolation of [Gay and Damon]  Brucellosis: A study of certain factors affecting the agglutination test [Schubert and Herndon]	:
Burn shock treatment, saline solution for	
Business management in public health	
Dusiness management in public hearth	
O	
Calcification, pulmonary: Geographic distribution among university stu-	
dents in Ohio [Prior, Wilce, and Palchanis]	1
Cancer	1
Cancer control:	
Morbidity reporting and case registers	
Why a public health problem? [Kaiser]	
Cancer program in medical schools. A review [Kaiser]	
Caries, dental, and morphine addicts	
Case finding: Diabetes	
Case registers in cancer control	
Casualties, mass	1
C. diphtheriae, influence of type and concentration of antitoxin on the in	
vitro toxigenicity test for [Freeman]Chest X-ray survey, community-wide:	
I. Introduction [Division of Tuberculosis]	1
II. Nursing [Bryant and Jones]	
Child health services:	1
In twelve metropolitan districts [Pennell, Bain, and Hubbard]	-
Specialized	15
Chile quarantine measures	
Cholera:	-
Vaccination certificate, internationally required:	
Egypt	17
Iraq	1
Somaliland (Italian)	17
Weekly reports:	
Burma 900, 1000	
1072, 1145, 1173, 1199, 1231, 1312, 1380, 1534, 1708	
Cambodia 1607	
India	
1000, 1037, 1072, 1145, 1380, 1459, 1491, 1655	
India (French) 1173, 1199, 1231, 1312, 1349, 1381, 1535, 1655	
India (Portuguese)	13
Indochina 929, 1072, 1145, 1173, 1349	
Pakistan 874, 900, 929, 1000	
World distribution: Asia 958, 1106, 1269, 1413, 1567	7, 17

Chrysona diagalia Willigton, the hitler for	Pas 132
Chrysops discalis Williston, the biting fly	166
City program [in chronic disease]	134
Coli O-antigen group, new [Ewing and Kauffman] Commissioned Corps examinations 1100, 1382, 1492, 1650	
Communicable Disease Center training course in rat-borne disease	123
Communicable diseases: See Diseases, communicable: United States	1.00
Conference:	
Aging	136
Child health	167
State and Territorial Health Authorities 1313	149
White House	152
Convention, military surgeons	131
Cooperatives, rural health	138
Copper sulfate molluscacidal action	148
Cortisone and ACTH, synthetic	152
Councils, health	163
D	
Deaths:	
Japan 957, 1172	, 137
Madagascar 899, 1000, 1144	, 134
New Zealand 956	, 138
United States: Weekly mortality index 870, 893	5, 926
953, 996, 1032, 1069, 1102, 1140, 1168, 1196, 1228, 1266, 1307,	1345
1376, 1410, 1454, 1487, 1530, 1563, 1602, 1651, 1702, 1730,	173
Deerfly fever and the biting fly, geographical distribution of	132
Deferment of essential registrants	150
Dental caries:	
In morphine addicts—as determined by clinical and radiographic ex-	
amination [Law and Ruble]	133
Mass control through fluoridation of the public water supply [Dean,	
Arnold, Jay, and Knutson]	1403
Diabetes:	
Case finding, anthrone blood sugar method adapted to, in a multiple	150
screening program [Fetz and Petrie]	1709
Detection in a nutrition survey: A study of 550 persons in Ottawa	100/
County, Mich. [Tabor and Frankhauser] Diphtheria:	1330
Trends in age distribution in the United States	1209
See also Diseases, communicable: United States	1200
Disease, training course in rat-borne	1233
Disease charts, communicable: United States:	1200
Diphtheria	1310
Measles	898
Meningitis, meningococcal	1035
Poliomyelitis 1035, 1171, 1310, 1457,	
Scarlet fever	1605
Typhoid and paratyphoid fever 1171,	
Whooping cough	898
	1615
Disease incidence: United States869	
925, 952, 995, 1031, 1068, 1101, 1139, 1167, 1195, 1227, 1265,	
1344, 1375, 1409, 1453, 1486, 1529, 1562, 1601, 1650, 1701, 1729,	

	Page
Diseases, communicable: United States:	4480 4845
Quarterly reported cases by region and State	1158, 1745
Weekly reported cases by region and State	1000 1007 1000
927, 954, 997, 1033, 1070, 1103, 1141, 1169, 1197,	
1346, 1377, 1411, 1455, 1488, 1531, 1564, 1603, 1653	, 1103, 1131, 1130
Diseases, reported cases:	079
Canada	
1379, 1413, 1458, 1490, 1533, 1566, 1606, 1654, 1	
Cuba999, 1036,	
Cyprus	
Finland 873, 999, 1231, 1269,	
Jamaica956, 1349,	
Japan	
Madagascar 899, 1000, 1144,	
New Zealand	
Norway 873, 1037, 1105, 1311,	
United States	
927, 954, 997, 1033, 1070, 1103, 1141, 1169, 1197,	
1346, 1377, 1411, 1455, 1488, 1531, 1564, 1603, 1652,	
Doctor draft	
Dollar, getting more for the [health]	
Dust from mine locomotive traction material, physiological re	
[Fairhall, Highman, and Perone]	
[ with the state of the state o	
E	
Eastern Health District, Baltimore—causes of illness	1235
Education, health	1630
Egypt quarantine measures	1706
Embryo, chick, for isolation of Brucella	1187
Encephalitis	
Encephalitis, infectious: See Diseases, communicable: United St	tates
Endocrines, course in diseases of	
Enterobacteriaceae, certain, placed in the tribe Eschericheae	1474
Environmental control	1614
Environmental health, new concept	1634
Errata:	
Effect of formaldehyde on the direct microscopic count of ray	
B. S. Levine	
Geographic distribution of pulmonary calcification among v	
students in Ohio	
Eschericheae, certain Enterobacteriaceae placed in the tribe	
Examinations, Commissioned Corps, Regular 1100, 1382,	1492, 1656, 1708
F	
Fluoridation of the public water supply for mass control of dental	caries 1403
Fluoridation, water	
Fluorine in sodium fluoride vs. sodium fluosilicate, availability	
Clure]	
Food:	
Acceptance	1667
And nutrition	
	4000

SUBJECT INDEX	
	1
Foods, frozen	1
Foreign reports: See Diseases, reported cases: Country. Formaldehyde, effect of, on the direct microscopic count of milk [Levine]	
G	
Gangrene, gas	1
Geographic differences in sensitivity to tuberculin	1
Geographic distribution:	-
Deerfly fever	1
Pulmonary calcification	1
Group practice	1
н	
Handbook for photofluorographic operators: Announcement of publication	4
of Haplomycosis in Montana rabbits, rodents, and carnivores [Jellison]	1
Hard-of-hearing children	1
Health, international	1
Health: Prime aid to defense	1
Health authorities conference, State and Territorial	1
Health cooperatives, rural [Johnston]	1
Health resources in defense of the Nation: A selective report of the 1950	
Conference of the State and Territorial Health Officers Association	1
Arthur Thomas McCormick Award recipients	1
Civil defense and health	1
Current problems.	1
Health and the child	1
Personnel adjustment, health	1
Scientific developments	1
Health tools for children	1
Health training, radiological	1
Heart disease	1
Heart measuring device, new	1
Histoplasmosis. Mycology and bacteriology [Furculow]	
Hospital beds, United States, 1950 [Cronin, Reed, and Baney]	1
Hospitals and sanatoria with tuberculosis beds, index	1
Human relationships in tuberculosis [Hart]	1
Housing, joint, of health department and hospital	1
Housing hygiene	1
1	
Illness causes in monthly canvasses of families, Eastern Health District,	
Baltimore, 1938-43 [Collins, Phillips, and Oliver]	1
Illness survey	13
Induction of health workers	1
Industrial hygiene statistics	10
Industrial sickness absenteeism. Males and females, 1949, and males, first	
and second quarters, 1950 [Gafafer]	1
Infection, laboratory 1002	, 16
Influenza:	
Japan	*
Vaccination	16
See also Diseases, communicable: United States	

Insurance, health	-
Interpersonal relations in health	
Iraq quarantine measures	-
J	
Joint housing of health department and hospital	
L	
Laboratories: Role in civil defense100	
Leprosy, relapse following apparent arrest of, by sulfone therapy	
[Erickson]	
Licensure of BCG vaccine	
Local nerve centers and civil defense	
Local responsibility and world health	
M	
Malaria	
Manpower	
Maps, geomedical	
Mass casualties	
Mass control of dental caries	
Measles: See Diseases, communicable: United States	
Measuring quality [for medical care]	
Medical facilities	
Medical judgment	
Medicine:	
Preventive	
Veterinary	
Meningitis, meningococcal:	
Anglo-Egyptian Sudan	
Egypt	
See also Diseases, communicable: United States	
Mental health survey	
Michael Reese Hospital Postgraduate School offers course in diseases of	
the endocrines	
Michigan University:	
Seminar on plumbing problems	
Training course in radiological health	
Milk row effect of formaldshyde on the microscopic count	
Milk, raw, effect of formaldehyde on the microscopic count	
Milk sanitation ratings, July 1948–June 1950	
Mine locomotive traction material.	
Molluscacidal action of copper sulfate in high concentration, laboratory	
tests [Nolan]	
areas of Schistosomiasis in Puerto Rico [Berry, Nolan, and Gonzales]	
Morbidity analysis	
Morbidity reporting and case registers in cancer control [Cutler]  Multiple screening:	
	9
And specialized programs [Mountin]Chronic disease	
Diabetes case finding in	1
AZIGUELES CASE HIIUHIE III	

#### SUBJECT INDEX

IX

Page Mycobacterium, recovery of, from sewage\_\_\_\_\_ 851 Mycology and bacteriology of histoplasmosis\_\_\_\_\_ 965 National Institutes of Health director named\_\_\_\_\_ New Haven schools, absenteeism follow-up in\_\_\_\_\_ 1737 New York defense plan\_\_\_\_\_ 1499 New Zealand: Child health\_\_\_\_\_ 860 Nurse in research\_\_\_\_\_ 860 Nurses, student, pulmonary findings and antigen sensitivity among\_\_\_\_\_ 1111 Nursing research 1627 Nutrition: Industrial \_\_\_\_\_ \_\_\_\_\_ 1644 Survey, Ottawa County, Mich., diabetes detection\_\_\_\_\_\_ 1330 Toward better training and services in medical [King]\_\_\_\_\_ 1719 0 Ohio university students, geographic distribution of pulmonary calcification among\_\_\_\_\_ 1132 P Penicillin dosage 1518 Personnel: Protection for photofluorographic\_\_\_\_\_ 865 Selection \_\_\_\_\_ 1623 Photofluorography: Operators handbook: Announcement of publication\_\_\_\_\_ 1452 Protection for personnel\_\_\_\_\_ Plague: Weekly reports: Belgian Congo\_\_\_\_\_ 1000, 1037, 1072, 1145, 1173, 1312, 1381, 1491, 1535 Brazil\_\_\_\_\_ 1312, 1459, 1491, 1607 Burma\_\_\_\_\_\_ 1145, 1199, 1535 China 900, 1000, 1232, 1381, 1535 Ecuador\_\_\_\_\_ 929, 1037, 1312, 1350 Indochina\_\_\_\_\_ 1037, 1072, 1173, 1199, 1459 Indonesia\_\_\_\_\_\_1145, 1607 Madagascar\_\_\_\_\_\_ 1535, 1705 Peru\_\_\_\_\_ 900, 1037, 1232 Union of South Africa...... 874, 1173, 1381, 1607 Plague: World distribution: Africa\_\_\_\_\_ 958, 1106, 1270, 1414, 1567, 1759 Asia\_\_\_\_\_ 958, 1106, 1270, 1414, 1568, 1759 South America 959, 1107, 1271, 1415, 1568, 1760 Plague, bubonic: Arizona\_\_\_\_\_\_ 1110, 1200 New Mexico\_\_\_\_\_\_ 962, 1200 Plague infection: Hawaii\_\_\_\_\_ 1001, 1535 Kansas\_\_\_\_\_\_ 1274

New Mexico\_\_\_\_\_\_ 1174, 1492

969485-52-2

Plague infection—Continued	
Texas 1460, 1492	, :
Washington	
Plumbing problems seminar	
Pneumonia: See Diseases, communicable: United States	
Point IV and doctor draft	
Poisoning of rats on ships by sodium fluoroacetate (1080)	
Poliomyelitis:	
Distribution	1.4
Great Britain	
See also Diseases, communicable: United States	
Premature infants	1
Problems, statistical	1
Protozoa: See Salmonellae, Shigellae, and protozoa	
Psychiatrists' posts in New York State	-
Public health: 1950: A topical and selective report, 78th annual meeting	
of the American Public Health Association 1609	
Child health	1
Chronic diseases	1
Defense and world health	1
Dyer, R. E., Sedgwick medal awarded to	1
Environmental health	1
Epidemiology	1
Medical care	1
Public health practice	1
Sedgwick medal, 1950, awarded to R. E. Dyer	1
Public health programs: Multiple screenings vs. specialized	1
Public Health Service milk ordinance communities list	1
Public Health Service publications:	4
January-June, 1950	1
July-December, 1949	1
Publications, list of Public Health Service 1090,	1
Pulmonary findings and antigen sensitivity among student nurses, studies of. VI. Geographic differences in sensitivity to tuberculin as evidence	
of nonspecific allergy [Palmer, Ferebee, and Petersen]	1
or nonspecial anergy [raimer, Ferebee, and retersen]	1
Q	
Quarantine measures:	
Chile	1
Egypt	1
Iraq	1
Somaliland (Italian)	1
Quaternary ammonium compounds, bactericidal efficiency [Butterfield,	
Wattie, and Chambers]	1
R	
Rabbits, rodents, and carnivores, haplomycosis in	1
Rables:	
	1
In animals: See Diseases, communicable: United States	
Radiation, protecting photofluorographic personnel from excessive	
[Van Allen]	-
Radiation protection	15

## SUBJECT INDEX

Rats:	Pai
Control of, Norway	153
Poisoning of, on ships	102
Rehabilitation	166
Relations, interpersonal, in public health	163
Resources, water	164
Rh factor, stability of, in mailed samples [Argall]	89
Rocky Mountain spotted fever: See Diseases, communicable: United States	
Rodenticide, warfarin, control of Norway rats with residual [Hayes and Gaines]	153
Rural health cooperatives	138
s	
Saline solution in treatment of burn shock	131
Salmonella cultures, visual identification of V and W form colonies	101
[Landy]	950
Salmonellae, Shigellae, and protozoa: Two surveys of methods used by pub-	551
lic health laboratories for the examination of stool specimens	107
Salt-soda for shock	149
Sanitation:	-10
General	1646
World	161
Scarlet fever: See Diseases, communicable: United States	-04
Schistosomiasis: Puerto Rico: Field tests of molluscacides	93
School:	-
Absentgeism in New Haven	173
Health	1674
Lunches from a health standpoint [Butler]	91
Schools, medical, cancer program	139
Sedgwick medal awarded to R. E. Dyer	162
Seminar on plumbing problems, University of Michigan School of Public Health	1036
Sewage, recovery of mycobacterium from	85
Shigellae; See Salmonellae, Shigellae, and protozoa.	00.
Shock, salt-soda for	1490
Shock treatment	131
Silicosis and mine locomotive traction material	1003
Smallpox: Vaccination certificate required: Chile	170
Smallpox: Weekly reports:	
Angola	1533
Arabia	1232
	1072
Belgian Congo	1381
British East Africa	1381
Burma	1733
Cameroon (British) 1072,	1350
Cameroon (French) 900,	1535
Chile 900,	
China	
Dahomey 1459,	1535
French West Africa	930
Gold Coast	1037

## PUBLIC HEALTH REPORTS

Smallpox: Weekly reports—Continued	Page
Greece	
India	
India (French) 1173	
India (Portuguese)	
Indonesia	
	3, 1200, 1350, 1381, 1459, 1607, 1706
Iran	1655, 1706
Japan	1734
Kenya	1607
Korea, Republic of	874
Mexico	930, 1173
Morocco (French)	1734
Mozambique	1200
Nigeria	930, 1706, 1734
Pakistan	900
Peru	1200, 1312, 1535, 1706
Rhodesia (Southern)	
Togo (French)	
Union of South Africa	
United States: See Diseases, communicable:	
Venezuela	
Smallpox: World distribution:	
Africa	959, 1107, 1271, 1415, 1569, 1760
Asia	
Europe	
North America	
Oceania	
South America	
Social science	
Sodium fluoroacetate (1080) poisoning of rats	
Sodium fluoride vs. sodium fluosilicate	
Somaliland (Italian) quarantine measures	
State and Territorial Health Officers meeting:	100
Announced	1074 1919
Reported	
State health resources	
Stool specimens for Salmonellae, Shigellae, and	
methods for the examination of [Felsenfeld]	
Streptomycin treatment in pulmonary tuberculos	
tion	
Sulfone therapy, relapse following apparent arre	
Surgeons, military, convention	1314
Survey:	
Illness in Baltimore	
Mental health	
Pattern (tuberculosis)	
X-ray, chest	1277, 1573
Syphilis serology	1687
$\mathbf{T}$	
Technician aides	1513
1080 (sodium fluoroacetate) poisoning of rats on	
Terramycin	1683

SUBJECT INDEX	XIII
	Page
Therapy, evaluation of tuberculosis	1419
Toxigenicity test for C. diphtheriae	875
Training course:	
Radiological health	1735
Rat-borne diseases	1233
Tubercle bacilli:	
Bactericidal effect of surface-active agents on [Smith, Nishihara, Golden, Hoyt, Guss, and Kloetzel]Survival of, in various treatment processes. I. Development of a	1588
method for the quantitative recovery of mycobacteria from sewage [Pramer, Heukelekian, and Ragotzkie]	851
Tuberculin sensitivity: Geographic differences as evidence of nonspecific	
allergy	1111
Tuberculosis:	
Among student nurses	1111
Beds, index of	1138
Case fatality	1685
Chest X-rays and cancer	1685
Human relationships [Hartz]	1292
Streptomycin treatment in pulmonary, a controlled investigation [Long	
and Ferebee]	1421
Survey pattern, Editorial [Anderson]	1275
Therapy, evaluation of. Editorial [Anderson]	1419
Tuberculosis control: X-ray survey, community-wide chest	1573
Tularemia:	1010
Geographical distribution of "deerfly fever" and the biting fly [Jellison]	1321
In man from a domestic water supply [Jellison, Epler, Kuhns, and	
Kohls]	1219
See also Diseases, communicable: United States	
Tularemia infection: New Mexico	901
Typhoid and paratyphoid fever: See Diseases, communicable: United State	28
Typhus fever: Weekly report:	
Afghanistan 874	, 900
Algeria	1174
Belgian Congo	1001
Ceylon	1608
Ecuador900, 1146,	1174
Egypt 874, 901,	1459
Ethiopia1491,	1734
Germany (U. S. Zone)	1535
Gold Coast	1655
Guatemala1174,	1608
India 901, 1608, 1706,	1734
Iran	1655
Iraq	1655
Jamaica	1146
Japan 901,	
Korea, Republic of 874,	
	1146
Peru 1200, 1312, 1535,	1706
Spain 1038, 1073, 1459,	
Turkey930,	

Union of South Africa	Typhus fever: Weekly report—Continued	Page
United States; Hawaii 1706 Venezuela 1608 Typhus fever: World distribution:  Africa 960, 1109, 1272, 1417, 1570, 1762 Asia 961, 1109, 1273, 1417, 1570, 1762 Asia 961, 1109, 1273, 1417, 1571, 1762 North America 961, 1109, 1273, 1417, 1571, 1763 Oceania 961, 1109, 1273, 1417, 1571, 1763 Oceania 961, 1109, 1273, 1418, 1571, 1763 Oceania 961, 1109, 1273, 1418, 1571, 1763 Oceania 961, 1109, 1273, 1418, 1571, 1763  U Ultraviolet light 1686 United Nations Day—October 24. Editorial [Scheele] 1315  V V and W form colonies in Salmonella cultures, visual identification 950 Vaccination certificate for smallpox required in Chile 1707 Vector control 1647 Veterinary medicine 1648  W Warfarin 1537 Wartime disease control 1647 White House Conference 1526 WHO publishes new boundaries for yellow fever danger zones 1029 Whooping cough: See Diseases, communicable: United States. World sanitation 1612  X X-ray survey, community-wide chest: I. Introduction 1277 II. Nursing [Bryant and Jones] 1573  Y Yellow fever: Weekly reports: Belgian Congo 1460 Brazil 1038, 1312 Cameroon (French) 1001, 1073 Colombia 1460 Gold Coast 1200, 1232, 1350, 1535, 1608, 1655 Nigeria 1920 Peru 874, 901, 1706 Sierra Leone 930, 1001, 1200, 1232 Venezuela 1535, 1608, 1708 Yellow fever: World distribution: Africa 962, 1110, 1274, 1418, 1571, 1763 North America 962, 1110, 1274, 1418, 1571, 1763 South America 962, 1110, 1274, 1418, 1571, 1763		
Venezuela		
Africa		
Africa		
Asia 961, 1109, 1273, 1417, 1570, 1762 Europe 961, 1109, 1273, 1417, 1571, 1762 North America 961, 1109, 1273, 1417, 1571, 1763 Oceania 961, 1110, 1274, 1418, 1571, 1763 Oceania 961, 1110, 1274, 1418, 1571, 1763 South America 961, 1109, 1273, 1418, 1571, 1763  U Ultraviolet light 1686 United Nations Day—October 24. Editorial [Scheele] 1315 V V and W form colonies in Salmonella cultures, visual identification 950 Vaccination certificate for smallpox required in Chile 1707 Vector control 1647 Veterinary medicine 17537 Wartime disease control 1648 W Warfarin 1537 Wartime disease control 1526 Who publishes new boundaries for yellow fever danger zones 1029 Whooping cough: See Diseases, communicable: United States. World sanitation 1612  X X-ray survey, community-wide chest: I. Introduction 1277 II. Nursing [Bryant and Jones] 1573  Y Yellow fever: Weekly reports: Belgian Congo 1460 Brazil 1038, 1312 Cameroon (French) 1001, 1073 Colombia 1460 Gold Coast 1200, 1232, 1350, 1535, 1608, 1655 Nigeria 1200, 1232, 1350, 1535, 1608, 1655 Nigeria 962, 1110, 1274, 1418, 1572, 1763 North America 962, 1110, 1274, 1418, 1571, 1763 North America 962, 1110, 1274, 1418, 1572, 1763		1109, 1272, 1417, 1570, 1762
Europe 961, 1109, 1273, 1417, 1571, 1762 North America 961, 1109, 1273, 1417, 1571, 1762 Oceania 961, 11109, 1273, 1418, 1571, 1763 Oceania 961, 11109, 1273, 1418, 1571, 1763 South America 961, 11109, 1273, 1418, 1571, 1763  U UItraviolet light 1686 United Nations Day—October 24. Editorial [Scheele] 1315  V V V and W form colonies in Salmonella cultures, visual identification 950 Vaccination certificate for smallpox required in Chile 1707 Vector control 1647 Veterinary medicine 1648  W Warfarin 1537 Wartime disease control 1615 White House Conference 1526 WHO publishes new boundaries for yellow fever danger zones 1029 Whooping cough: See Diseases, communicable: United States. World sanitation 1612  X X-ray survey, community-wide chest: I. Introduction 1277 II. Nursing [Bryant and Jones] 1753  Y Yellow fever: Weekly reports: Belgian Congo 1460 Brazil 1038, 1312 Cameroon (French) 1001, 1073 Colombia 1460 Gold Coast 1200, 1232, 1350, 1535, 1608, 1655 Nigeria 1200 Peru 874, 901, 1706 Sierra Leone 930, 1001, 1200, 1232 Venezuela 962, 1110, 1274, 1418, 1572, 1763 South America 962, 1110, 1274, 1418, 1572, 1763 South America 962, 1110, 1274, 1418, 1572, 1763 South America 962, 1110, 1274, 1418, 1572, 1763		
North America		
Oceania		
South America		
U Ultraviolet light		
Ultraviolet light	South America	1100, 1210, 1410, 1011, 1100
V   V   and W   form colonies in   Salmonella   cultures, visual identification   950   Vaccination certificate   for smallpox required   in Chile   1707   Vector control   1647   Veterinary medicine   1648   W   Warfarin   1537   Wartime disease control   1615   White House Conference   1526   WHO publishes new boundaries   for yellow   fever danger zones   1029   Whooping cough   See Diseases, communicable   United States.   World sanitation   1612   X   X-ray survey, community-wide chest   I. Introduction   1277   II. Nursing   Bryant and Jones   1573   Y   Yellow   fever   Weekly   reports   1608   Brazil   1038   1312   Cameroon   (French)   1001   1073   Colombia   1460   Gold Coast   1200   1232   1350   1535   1608   1655   Nigeria   1200   Peru   874   901   1706   Sierra   Leone   930   1001   1200   1232   Venezuela   1535   1608   1706   Yellow   fever   World   distribution   1461   1572   1763   North   America   962   1110   1274   1418   1572   1763   South   America   962   1110   1274   1418   1572   1763	U	
V   V   and W   form colonies in   Salmonella   cultures, visual identification   950   Vaccination certificate   for smallpox required   in Chile   1707   Vector control   1647   Veterinary medicine   1648   W   Warfarin   1537   Wartime disease control   1615   White House Conference   1526   WHO publishes new boundaries   for yellow   fever danger zones   1029   Whooping cough   See Diseases, communicable   United States.   World sanitation   1612   X   X-ray survey, community-wide chest   I. Introduction   1277   II. Nursing   Bryant and Jones   1573   Y   Yellow   fever   Weekly   reports   1608   Brazil   1038   1312   Cameroon   (French)   1001   1073   Colombia   1460   Gold Coast   1200   1232   1350   1535   1608   1655   Nigeria   1200   Peru   874   901   1706   Sierra   Leone   930   1001   1200   1232   Venezuela   1535   1608   1706   Yellow   fever   World   distribution   1461   1572   1763   North   America   962   1110   1274   1418   1572   1763   South   America   962   1110   1274   1418   1572   1763	Ultraviolet light	1686
V   V   and W   form colonies in   Salmonella   cultures, visual identification   950   Vaccination   certificate   for smallpox required   in Chile   1707   Vector control   1647   Veterinary medicine   1648   W   Warfarin   1537   Wartime   disease   control   1615   White   House   Conference   1526   WHO   publishes   new   boundaries   for yellow   fever   danger   zones   1029   Whooping   cough   See   Diseases,   communicable   United   States   Vorld   sanitation   1612   X   X-ray   survey,   community-wide   chest   I   Introduction   1277   II.   Nursing   Bryant   and   Jones   1573   Y   Yellow   fever   Weekly   reports   1460   Brazil   1038,   1312   Cameroon   (French)   1001,   1073   Colombia   1460   Gold   Coast   1200,   1232,   1350,   1535,   1608,   1655   Nigeria   1200   Peru   874,   901,   1706   Sierra   Leone   930,   1001,   1200,   1232   Venezuela   1535,   1608,   1706   Yellow   fever   World   distribution   Africa   962,   1110,   1274,   1418,   1571,   1763   North   America   962,   1110,   1274,   1418,   1571,   1763   South   America   962,   1110,   1274,   1418,   1572,   1763   South	United Nations Day-October 24. Editorial [Scheele]	1315
V and W form colonies in Salmonella cultures, visual identification       950         Vaccination certificate for smallpox required in Chile       1707         Vector control       1647         Veterinary medicine       1648         W       W         Warfarin       1537         Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States       1612         X       X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Y         Yellow fever: Weekly reports:       Pelgian Congo       1460         Belgian Congo       1460         Gold Coast       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1635         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763		
Vaccination certificate for smallpox required in Chile       1707         Vector control       1647         Veterinary medicine       1648         W         Warfarin       1537         Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.         World sanitation       1612         X         X-ray survey, community-wide chest:         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y         Yellow fever: Weekly reports:         Belgian Congo       1460         Brazil       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yenezuela       1535, 1608, 1706	v	
Vaccination certificate for smallpox required in Chile         1707           Vector control         1647           Veterinary medicine         1648           W         W           Warfarin         1537           Wartime disease control         1615           White House Conference         1526           WHO publishes new boundaries for yellow fever danger zones         1029           Whooping cough: See Diseases, communicable: United States         World sanitation           X         X           X-ray survey, community-wide chest:         1           I. Introduction         1277           II. Nursing [Bryant and Jones]         1573           Y         Y           Yellow fever: Weekly reports:         Belgian Congo         1460           Brazil         1038, 1312           Cameroon (French)         1001, 1073           Colombia         1400           Gold Coast         1200, 1232, 1350, 1535, 1608, 1655           Nigeria         1200           Peru         874, 901, 1706           Sierra Leone         930, 1001, 1200, 1232           Venezuela         1535, 1608, 1706           Yellow fever: World distribution:         962, 1110, 1274, 1418, 1571, 1763	V and W form colonies in Salmonella cultures, visual id	lentification 950
Vector control       1647         Veterinary medicine       1648         W       W         Warfarin       1537         Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.         World sanitation       1612         X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Yellow fever: Weekly reports:         Belgian Congo       1460         Brazil       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       4frica       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763		
Warfarin 1537 Wartime disease control 1615 White House Conference 1526 WHO publishes new boundaries for yellow fever danger zones 1029 Whooping cough: See Diseases, communicable: United States. World sanitation 1612  X X-ray survey, community-wide chest: I. Introduction 1277 II. Nursing [Bryant and Jones] 1573  Y Yellow fever: Weekly reports: Belgian Congo 1460 Brazil 1038, 1312 Cameroon (French) 1001, 1073 Colombia 1460 Gold Coast 1200, 1232, 1350, 1535, 1608, 1635 Nigeria 1200 Peru 874, 901, 1706 Sierra Leone 930, 1001, 1200, 1232 Venezuela 1535, 1608, 1706 Yellow fever: World distribution: Africa 962, 1110, 1274, 1418, 1571, 1763 North America 962, 1110, 1274, 1418, 1572, 1763 South America 962, 1110, 1274, 1418, 1572, 1763		
Warfarin       1537         Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.       1612         X       X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Y         Yellow fever: Weekly reports:       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       4frica       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Veterinary medicine	1648
Warfarin       1537         Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.       1612         X       X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Y         Yellow fever: Weekly reports:       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       4frica       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	•	
Wartime disease control       1615         White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.       1612         X       X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Y         Yellow fever: Weekly reports:       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       4frica       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	**	
White House Conference       1526         WHO publishes new boundaries for yellow fever danger zones       1029         Whooping cough: See Diseases, communicable: United States.       1612         X       X         X-ray survey, community-wide chest:       1         I. Introduction       1277         II. Nursing [Bryant and Jones]       1573         Y       Y         Yellow fever: Weekly reports:       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       Africa       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763		
WHO publishes new boundaries for yellow fever danger zones	Wartime disease control	1615
Whooping cough: See Diseases, communicable: United States.         World sanitation       1612         X         X-ray survey, community-wide chest:		
X   X   X-ray survey, community-wide chest :   I. Introduction	WHO publishes new boundaries for yellow fever danger	zones 1029
X  X-ray survey, community-wide chest:  I. Introduction	Whooping cough: See Diseases, communicable: United	States.
X-ray survey, community-wide chest:  I. Introduction	World sanitation	1612
X-ray survey, community-wide chest:  I. Introduction	x	
I. Introduction		
Y       Yellow fever: Weekly reports:     1460       Brazil     1038, 1312       Cameroon (French)     1001, 1073       Colombia     1460       Gold Coast     1200, 1232, 1350, 1535, 1608, 1655       Nigeria     1200       Peru     874, 901, 1706       Sierra Leone     930, 1001, 1200, 1232       Venezuela     1535, 1608, 1706       Yellow fever: World distribution:     962, 1110, 1274, 1418, 1571, 1763       North America     962, 1110, 1274, 1418, 1572, 1763       South America     962, 1110, 1274, 1418, 1572, 1763		1977
Y Yellow fever: Weekly reports:  Belgian Congo		
Yellow fever: Weekly reports:       1460         Brazil       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	11. Nursing [Bryant and Jones]	1919
Belgian Congo       1460         Brazil       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Y	
Brazil       1038, 1312         Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Yellow fever: Weekly reports:	
Cameroon (French)       1001, 1073         Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Belgian Congo	1460
Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Brazil	1038, 1312
Colombia       1460         Gold Coast       1200, 1232, 1350, 1535, 1608, 1655         Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Cameroon (French)	1001, 1073
Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763		
Nigeria       1200         Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Gold Coast 1200, 12	232, 1350, 1535, 1608, 1655
Peru       874, 901, 1706         Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763		
Sierra Leone       930, 1001, 1200, 1232         Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763	Peru	874, 901, 1706
Venezuela       1535, 1608, 1706         Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763		
Yellow fever: World distribution:       962, 1110, 1274, 1418, 1571, 1763         North America       962, 1110, 1274, 1418, 1572, 1763         South America       962, 1110, 1274, 1418, 1572, 1763		
Africa		-,,
North America 962, 1110, 1274, 1418, 1572, 1763 South America 962, 1110, 1274, 1418, 1572, 1763		110, 1274, 1418, 1571, 1763
South America 962, 1110, 1274, 1418, 1572, 1763		

## Public Health Service Author Index

Includes Papers by Public Health Service Personnel Printed in Public Health Reports and Other Publications July-December 1950\*

#### A

- Akins, Harvey: A method of infecting Aedes aegypti with Plasmodium gallinaceum from chick embryos. J. Nat. Malaria Soc. 9: 248.
- Algire, Glenn H. (Chalkley and Earle): Vascular reactions of normal and malignant tissues in vivo. III. Vascular reactions of mice to fibroblasts treated in vitro with methylcholanthrene. J. Nat. Cancer Inst. 11: 555.
- ----- See also Merwin, Ruth (Algire and Kaplan).
- Allen, Ezra (and Altland): Studies on degenerating sex cells in immature mammals. II. Detailed descriptions of the differentiation of the male germinal epithelium in white rats 14–62 days after birth and of the accompanying types of physiological degeneration (abstract). Anat. Rec. 108: 576.
- Allen, Milton J.: The preparation of 4,4-di-hydroxyhydrobenzoin by electrolytic reduction at constant cathode potentials. J. Am. Chem. Soc. 72: 3797.
- ——— (Hertz and Tullner): The progestational activity of 1,2-bis-(p-aminophenyl)-2-methyl-propanone-1 dihydro-chloride. Proc. Soc. Exper. Biol. and Med. 74: 632.
- Altland, Paul D. (and Allen): Effect of hypoxia on germ cells of immature male white rats (abstract). Anat. Rec. 108: 609.
- —— (and Highman): Failure of DL-methionine supplement to alter the effects of hypoxia in rats. Anat. Rec. 108: 608.
- —— See also Allen, Ezra (and Altland); Highman, Benjamin (and Altland).

  Altman, Isidore: See Wiprud, Theodore (and Altman).
- Altschul, Sol: See Isbell, Harris (Altschul, Kornetsky, Eisenman, Flannary, and Fraser).
- Anderson, Robert J.: Evaluation of therapy. Editorial. Pub. Health Rep. 65:
- ---- Licensure of BCG vaccine. Editorial. Pub. Health Rep. 65: 963.
- ---- Survey pattern. Editorial. Pub. Health Rep. 65: 1275.
- Andervont, Howard B.: Attempt to detect a mammary tumor-agent in strain C mice by estrogenic stimulation. J. Nat. Cancer Inst. 11: 73.
- —— Induction of hemangio-endotheliomas and sarcomas in mice with O-aminoazotoluene. J. Nat. Cancer Inst. 10: 927.
- —— Response of mammary-tumor-agent free strain DBA female mice to percutaneous application of methylcholanthrene. J. Nat. Cancer Inst. 10: 895.

<sup>\*</sup>All items marked with an asterisk were published January-June 1950, but reported too late for inclusion in Index to vol. 65, pt. I.

NOTE.—Address requests for reprints from Public Health Reports, Journal of Venereal Disease Information, and the Journal of the National Cancer Institute to the Surgeon General, Public Health Service, Washington 25, D. C.

Andervont, Howard B.: Studies on the infectivity of the mouse mammary tumor agent. J. Nat. Cancer Inst. 11: 545.

—— Studies on the occurrence of spontaneous hepatomas in mice of strains C<sub>2</sub>H and CBA. J. Nat. Cancer Inst. 11: 581.

(and Dunn): Attempt to detect a mammary tumor-agent in strain C mice by X-radiation. J. Nat. Cancer Inst. 10: 1157.

Andrews, Howard L. (and Shore): X-ray dose determinations with chloral hydrate. J. Chem. Phys. 18: 1165.

\*Andrews, Justin M.; Advancing frontiers in insect vector control. Am. J. Pub. Health 40: 409.

----- Planning a malaria control program for Iran. CDC Bull. 9: 1, July.

——— (Quinby and Langmuir): Malaria eradication in the United States. Am. J. Pub. Health 40: 1405.

Armstrong, Charles: The seasonal distribution of poliomyelitis. Am J. Pub. Health 40: 1296.

---- See also Huebner, Robert J. (Armstrong, Beeman, and Cole).

Arnold, Francis A.: See Dean, H. Trendley (Arnold, Jay, and Knutson).

Arnold, R. C. (Wright and Levitan): Reinfection in experimental syphilis in rabbits following penicillin therapy. III. Development of immunity in early syphilis. Am. J. Syph., Gonor., and Ven. Dis. 34: 324.

——— (Wright and McLeod): The development and behavior patterns of immunity in experimental syphilis. J. Ven. Dis. Inform. 31: 291.

———— Reinfection in experimental syphilis in rabbits following penicillin therapy. IV. The development and character of immunity in latent syphilis. Am. J. Syph., Gonor., and Ven. Dis. 34: 327.

---- See also Wright, R. D. (Nicholson and Arnold).

Arnstein, Margaret G.; Research in the nursing field. Am. J. Pub. Health 40: 988.

Ashburn, L. L.: See Pecora, Louis J. (Ashburn and Hundley).

Atchley, Floyd O.: A survey of blood parasites in domestic animals in South Carolina (abstract). J. Parasitol. 36: 22, Supp.

Aufranc, W. H.: See Huse, Betty (and Aufranc).

Axelrod, Julius: See Weiner, Murray (Shapiro, Axelrod, Cooper, and Brodie).

#### B

Baernstein, Harry D.: See von Brand, Theodor (Baernstein and Mehlman).

\*Baker, Carl C. (and Meister): Studies on fatty acid oxidation by normal and neoplastic liver. J. Nat. Cancer Inst. 10: 1191.

---- See also Greenstein, Jesse P. (Levintow, Baker, and White).

Ballard, M. B.: See Wilcox, Aimee (Tomlinson and Ballard).

Baney, Anna Mae: See Cronin, John W. (Reed and Baney).

Barrett, Morris K.: A permanent gastrostomy. Gastroenterology 16: 764.

(and Deringer): An induced adaptation in a transplantable tumor of mice.
 J. Nat. Cancer Inst. 11: 51.

Bartgis, Ida L.: See Rees, Charles W. (Reardon and Bartgis).

Beck, M. Dorothy: See Bell, Joseph A. (Beck and Huebner).

Becker, Mary M.: See Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker).

Beeman, Edward A.: See Huebner, Robert J. (Armstrong, Beeman, and Cole).

Bell, E. J.: See Parker, R. R. (de Prada, Bell, Lackman, Gay, and Llorente).

Bell, J. F.: See Eklund, Carl M. (Brennan and Bell).

- \*Bell, Joseph A. (Beck and Huebner): Epidemiological studies of Q fever in southern California. J. Am. Med. Assoc. 142: 868.
- Bennett, James G.: See Stewart, Harold L. (Kaplan and Bennett).
- \*Bennison, B. E. (and Mostofi): Observations on inbred mice exposed to DDT. J. Nat. Cancer Inst. 10: 989.
- ---- See also Malmgren, R. A. (and Bennison).
- \*Berenbom, M. (and White): Metabolism of intravenously administered N<sup>15</sup>-labeled compounds (abstract). Federation Proc. 9: 150.
- Berger, E. Y. (Dunning, Steele, Jackenthal, and Brodie): Estimation of intracellular water in man. Am. J. Physiol. 162: 318.
- ---- See also Steele, J. Murray (Berger, Dunning, and Brodie).
- Berry, E. G. (Nolan and González): Field tests of molluscacides against Australorbis glabratus in endemic areas of schistosomiasis in Puerto Rico. Pub. Health Rep. 65: 939.
- \*Bierman, Howard R. (Byron, Miller, and Shimkin): Effects of intraarterial administration of nitrogen mustard. Am. J. Med. 8: 535.
- ——— (Cohen, McClelland, and Shimkin): The effect of transfusions and antibiotics upon the duration of life in children with lymphogenous leukemia. J. Pediat. 37: 455.
- ------ See also Masouredis, S. P. (Low-Beer, Bierman, Cherney, and Shimkin); Morrow, Patrice L. (Bierman and Jenkins); Shimkin, M. B. (and Bierman).
- \*Bill, A. H. (Peirce and Gross): Experimental production of an extracardiac shunt around the mitral valve. Arch. Surg. 60: 1114.
- Birren, James E. (and Botwinick): Effects of age and senile psychoses upon speed of writing digits and words (abstract). J. Gerontol. 5: 383.
- (Casperson and Botwinick): Age changes in pupil size. J. Gerontol.
   216.
- —— (Fox and Botwinick): An analysis of age changes in rate of performance of simple intellectual tasks (abstract). Am. J. Psychol. 5: 365.
- ——— (Schapiro and Miller): The effect of salicylate upon pain sensitivity. J. Pharmacol, and Exper. Therap. 100: 67.
- ----- See also Botwinick, Jack (and Birren); Fox, Charlotte (and Birren).
- Block, L.: See McGibony, J. R. (and Block).
- Block, Richard J. (and Sober): Paper chromatography of amino acids. *In* Colloid chemistry; Theoretical and applied, edited by Jerome A. Alexander, New York, Reinhold Pub. Corp., vol. 7, p. 181.
- Blum, Harold F.: On the mechanism of cancer induction by ultraviolet radiation.
  J. Nat. Cancer Inst. 11: 463.
- —— Radiation: Non-ionizing; Photophysiology and photopathology. In Medical physics, edited by O. Glasser, Chicago, Year Book Publishers Inc., vol. 2, p. 753.
- Radiation: Photophysiologic and photopathologic processes. In Medical physics, edited by O. Glasser, Chicago, Year Book Publishers Inc., vol. 1, p. 1145.
- (Loos and Robinson): The accelerating action of illumination in recovery
  of Arbacia eggs from exposure to ultraviolet radiation. J. Gen. Physiol. 34:
  167.
- ——— (and Mathews): Photorecovery after ultraviolet radiation in amphibian larvae (abstract). Biol. Bull. 99: 330.
- ——— (Pope, Price, and Witmer): Photochemical inactivation of chymotrypsin (abstract). Biol. Bull. 99: 317.
- ——— (Robinson and Loos): The loci of action of ultraviolet and X-radiation, and of photorecovery, in the egg and sperm of Arbacia (abstract). Biol. Bull. 99: 342.

- Blum, Harold F. (Robinson and Loos): The loci of action of ultraviolet and X-radiation, and of photorecovery, in the egg and sperm of the sea urchin, Proc. Nat. Acad. Sc. 36: 623.
- ----- See also Johnson, F. H. (Flagler and Blum).
- Bothe, Albert E. (Dalton, Hastings, and Zillessen): A study of the Golgi material and mitochondria in malignant and benign prostatic tissue. J. Nat. Cancer Inst. 11: 239.
- Botwinick, Jack (and Birren): The measurement of intellectual deterioration in senile psychosis and psychosis with cerebral arteriosclerosis (abstract). Am. J. Psychol. 5: 364.
- —— See also Birren, James E. (and Botwinick); Birren, James E. (Casperson and Botwinick).
- Boyle, P. J.: See Law, L. W. (and Boyle).
- \*Bradley, George H. (and Lyman): Discussion of five years' use of DDT residuals against Anopheles quadrimaculatus. J. Nat. Malaria Soc. 9: 113.
- Brady, F. J.: See Haskins, W. T. (Luttermoser and Brady).
- Branham, Sara E. (and Carlin): The antigenicity of Shigella sonnei. J. Immunol. 65: 407.
- Brecher, George (and Conkite): Morphology and enumeration of human platelets with phase microscopy. J. Appl. Physiol. 3: 365.
- —— (and Schneiderman): A time saving device for the counting of reticulocytes. Am. J. Clin. Path. 20: 1079.
- Brennan, James M. (and Wharton): Studies on North American chiggers. III. The subgenus Neotrombicula. Am. Midland Naturalist 44: 153.
- ----- See also Eklund, Carl M. (Brennan and Bell).
- Brodie, Bernard B. (and Udenfriend): Metabolites of pamaquine in urine. Proc. Soc. Exper. Biol. and Med. 74: 845.
- \*Brown, John H. (and Kohls): The ticks of Alberta with special reference to distribution. Canad. J. Res. 28: 197.
- \*Bryan, W. Ray (Lorenz and Moloney): Studies on the effects in vitro of roentgen radiation on the biological activity of the agent of chicken tumor I (Rous sarcoma). J. Nat. Cancer. Inst. 10: 1215.
- (Maver, Moloney, Wood, and White): Comparative stability in the agent of chicken tumor I in citrate and phosphate buffers at 37° C. J. Nat. Cancer Inst. 11: 269.
- Bryant, Zella (and Jones): Community-wide chest X-ray survey. II. Nursing. Pub. Health Rep. 65: 1573.
- Buck, John B.: Control of luminescence in *Phengodes* (abstract). Anat. Rec. 108: 609.
- ——— (and Keister): Cuticular and spiracular respiration in *Phormia* larvae (abstract). Anat. Rec. 108: 512.
- Experiments on spiracles (abstract). Biol. Bull. 99: 315.
- ——— Mechanism of gas transport through spiracles (abstract). Anat. Rec. 108: 513.
- ——— Mechanism of gas transport through spiracles (abstract). Biol. Bull. 99: 315.
- Bundesen, Herman N. (and Aron): How to evaluate positive Kahn tests in infants. J. Ven. Dis. Inform. 31: 185.

- \*Burch, Thomas A.: Observationes referentes al tratamiento de la oncocercois con suramina y hetrazen (Observations on the treatment of onchocerciasis). Rev. salub. y asistência 3: 7.
- Burgess, Robert W. (and Young): The comparative susceptibility of Anopheles quadrimaculatus and Anopheles freeborni to infection by Plasmodium vivax (St. Elizabeth strain). J. Nat. Malaria Soc. 9: 218.
- See also Hunninen, Arne V. (Young and Burgess).
- Butler, Roy E.: School lunches from a health standpoint. Pub. Health Rep. 65: 919.
- Butterfield, C. T. (Wattie and Chambers): Bactericidal efficiency of quaternary ammonium compounds. Pub. Health Rep. 65: 1039.

C

- \*Carle, Birdsall N. (and Larson): Chemotherapy of experimental brucellosis. In Brucellosis. A symposium, Washington, D. C., American Society for the Advancement of Science, p. 155.
- ---- See also Spicknall, Charles G. (Kurland, Carle, and Terry).
- Carlin, Sadie A.: See Branham, Sara E. (and Carlin).
- Carroll, Dorothy M.: See Morrow, Andrew G. (Greenspan and Carroll).
- Casperson, Roland C.: See Birren, James E. (Casperson and Botwinick).
- Chalkley, Harold W.: See Algire, Glenn H. (Chalkley and Earle).
- Chamberlain, Roy W. (and Sikes): Laboratory rearing methods for three common species of bird mites. J. Parasitol. 36: 461.
- Chambers, C. W.: See Butterfield, C. T. (Wattie and Chambers).
- Cherney, L. S.: See Masouredis, S. P. (Low-Beer, Bierman, Cherney, and Shimkin).
- Christenson, C. W. (Ettinger, Robeck, Hermann, Kohr, and Newell): The removal of plutonium from laboratory wastes (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 178.
- Chu, C. H. U.: A histochemical study of staining the axis cylinder with fuchsinsulfurous acid (Schiff's reagent). Anat. Rec. 108: 723.
- Clapp, R. F.: See Spangler, C. D. (Clapp and Clark).
- Clark, G. J.: See Spangler, C. D. (Clapp and Clark).
- Clarke, Donald A. (Modell, Greiner, Kwit, Gluck, and Gold): The dosage-response curve for the comparison of mercurial diuretics. Am. J. Med. Sc. 220: 156.
- \*Coatney, G. Robert (Cooper, Culwell, White, and Imboden): Studies in human malaria. XXV. Trial of febrifugine, and alkaloid obtained from *Dichroa febrifuga* Lour., against the Chesson strain of *Plasmodium vivax*. J. Nat. Malaria Soc. 9: 183.
- ——— (Cooper, Eyles, Culwell, White, and Lints): Studies in human malaria. XXVII. Observations on the use of pentaquine in the prevention and treatment of Chesson strain vivax malaria. J. Nat. Malaria Soc. 9: 222.
- (Cooper and Young): Studies in human malaria. XXX. A summary of 204 sporozite-induced infections with the Chesson strain of *Plasmodium vivax*. J. Nat. Malaria Soc. 9: 381.
- ——See also Cooper, W. Clark (Coatney, Culwell, Eyles, and Young); Cooper, W. Clark (Coatney, Jeffery, and Imboden); Greenberg, Joseph (Trembley and Coatney); Imboden, C. A., Jr. (Cooper, Coatney, and Jeffery); Lastra, Ivonne (and Coatney); Taylor, D. Jane (Greenberg, Highman, and Coatney).
- Cole, H. N. (Plotke, Thomas, and Jenkins): Effectiveness of penicillin in preventing congenital syphilis when administered prior to pregnancy. J. Ven. Dis. Inform. 31: 201.

Cole, Roger M.: See Huebner, Robert J. (Armstrong, Beeman, and Cole); Michael, Max, Jr. (Cole, Beeson, and Olson).

Coleman, Nell: See Luttermoser, George W. (Haskins, Coleman, and Jumper).

Collins, Selwyn D. (Phillips and Oliver): Specific causes of illness found in monthly canvasses of families. Sample of the Eastern Health District of Baltimore, 1938–43. Pub. Health Rep. 65: 1235.

\*Cooper, W. Clark (Coatney, Culwell, Eyles, and Young): Studies in human malaria. XXVI. Simultaneous infection with Chesson and the St. Elizabeth strains of *Plasmodium vivaæ*. J. Nat. Malaria Soc. 9: 187.

(Coatney, Jeffery, and Imboden): Studies in human malaria. XXVIII. Observations on the use of chlorguanide against the Chesson strain of *Plasmodium vivax*. J. Nat. Malaria Soc. 9: 366.

——See also Coatney, G. Robert (Cooper, Culwell, White, and Imboden);
Coatney, G. Robert (Cooper, Eyles, Culwell, White, and Lints); Coatney, G.
Robert (Cooper and Young); Imboden, C. A., Jr. (Cooper, Coatney, and Jeffery).

Cornfield, Jerome: See Greenhouse, Samuel W. (and Cornfield).

Corwin, Alsoph H. (and Fu): The mechanism of halogenation of pyrrole derivatives (abstract). *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 88N.

Cram, Eloise B.: Progressive blood changes in experimental infections with Schistosoma mansoni in mice (abstract). J. Parasitol. 36: 13, Supp.

Cronin, John W. (Reed and Baney): Hospital beds in the United States, 1950.Pub. Health Rep. 65: 1461.

Culwell, W. B.: See Coatney, G. Robert (Cooper, Culwell, White, and Imboden); Coatney, G. Robert (Cooper, Eyles, Culwell, White, and Lints); Cooper, W. Clark (Coatney, Culwell, Eyles, and Young).

Cummings, M. M.: See Robinson, J. H. (Cummings and Patnode).

\*Cutler, Sidney J.: Cancer illness among residents of Atlanta, Georgia, 1947.

Public Health Service publication No. 13, Cancer morbidity series No. 1.

—— The role of morbidity reporting and case registers in cancer control. Pub. Health Rep. 65: 1084.

#### D

Dalmat, Herbert T.: Studies on the flight range of certain Simuliidae, using aniline dye marker. Ann. Ent. Soc. America 43: 537.

Dalton, Albert J. (Kahler, Striebich, and Lloyd): Finer structure of hepatic, intestinal, and renal cells of the mouse as revealed by the electron microscope. J. Nat. Cancer Inst. 11: 439.

——— (Morris, Striebich, and Dubnik): Histologic changes in strain C mice following long term ingestion of thiouracil. J. Nat. Cancer Inst. 11: 391.

—— See also Bothe, Albert E. (Dalton, Hastings, and Zillessen); Dubnik, Celia S. (Morris and Dalton).

Daniel, Esther P.: See Toal, Jane Nicolet (and Daniel).

Daniel, George E. (and May): Observations on the reactions of *Pelomyxa carolinensis* subjected to a direct current electric field. Physiol. Zoology 23: 231.

\*———— The ultraviolet absorption of aqueous suspensions of 20-methylcholanthrene. Brit. J. Cancer 4: 139.

\*Davis, Dorland J. (and Hawkins): Recovery of a case of psittacosis following aureomycin therapy. Med. Ann. District of Columbia 19: 203.

(Pittman and Griffitts): Hemagglutination by the Koch-Weeks bacillus (Hemophilus aegyptius). J. Bact. 59: 427.

- Dean, H. Trendley (Arnold, Jay, and Knutson): Studies on mass control of dental caries through fluoridation of the public water supply. Pub. Health Rep. 65: 1403.
- Deringer, Margaret K.: See Barrett, Morris K. (and Deringer); Heston, W. E. (Deringer, Dunn, and Levillain).
- Despopoulos, A. (and Perloff): Pituitary versus primary thyroid myxedema. Am. J. Med. Sc. 220: 208.
- De Witt, William J.: Eosinophil response of mice to single sex and mixed Schistosoma japonica infections (abstract). J. Parasitol. 36: 13, Supp.
- Diehl, Harry W.: See Fletcher, Hewitt G., Jr. (Diehl and Hudson).
- Doak, G. O. (and Jaffe): Disproportionation of aromatic Stiboso compounds. II. Methods and synthesis. J. Am. Chem. Soc. 72: 3025.
- See also Jaffe, H. H. (and Doak).
- Donohue, James F.: See Freeble, Charles R., Jr. (Wright, Donohue, and Bolin); Freeble, Charles R., Jr. (Wright, Donohue, and Pratt).
- Dorn, Harold F.: Pitfalls in population forecasts and projections. J. Am. Stat. Assoc. 45: 311.
- —— Variations in cancer incidence in the United States (abstract). J. Nat. Cancer Inst. 11: 635.
- Downing, V.: See Leiter, J. (Downing, Hartwell, and Shear).
- \*Dubnik, Celia S. (Morris and Dalton): Inhibition of mammary-gland development and mammary tumorgenesis in female C₁H mice ingesting thiouracil.

  J. Nat. Cancer Inst. 10: 815.
- —— See also Dalton, A. J. (Morris, Striebich, and Dubnik); Morris, Harold P. (and Dubnik).
- Duchesne, Emily: See Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker).
- Dunn, John E., Jr. (and Greenhouse): Cancer diagnostic tests. Principles and criteria for development and evaluation. Public Health Service Publication No. 9.
- Dunn, Thelma B.: See Andervont, Howard B. (and Dunn); Heston, W. E. (Deringer, Dunn, and Levillain).
- Dunning, M. F.: See Berger, E. Y. (Dunning, Steele, Jackenthal, and Brodie); Steel, J. Murray (Berger, Dunning, and Brodie).
- \*Dyer, Helen M.: An index of tumor chemotherapy. A tabulated compilation of data from the literature on clinical and experimental investigations. National Cancer Institute Monograph, 329 pp.
- —— (and Ross): Ascorbic acid, dehydroascorbic acid, and diketogulonic acid of transplanted melanomas and of other tumors of the mouse. J. Nat. Cancer Inst. 11: 313.

#### E

- Eagle, Harry: The development of bactericidal resistance to penicillin, streptomycin, and chloromycetin (abstract). In Proc. 50th general meeting, Society of American Bacteriologists, p. 101.
- —— (Fleischman and Musselman): The bactericidal action of penicillin in vivo: The participation of the host, the slow recovery of the surviving organisms. Ann. Int. Med. 33: 544.
- The effect of the schedule of administration on the therapeutic efficacy of penicillin: The importance of the aggregate time for which penicillin remains at effectively bactericidal levels. Am. J. Med. 9: 280.
- —— See also Germuth, Frederick G., Jr. (Eagle and Oyama); Steinman, Harry G. (and Eagle).

- \*Earle, Wilton R. (Evans and Schilling): Extension of cellophane substrate procedure to growth of *in vitro* cultures of large areas. J. Nat. Cancer Inst. 10: 943.
- \*—— (Schilling and Shelton): Production of malignancy in vitro. IX. Description of cells at the fluid interface of the culture; X. Continued description of cells at the glass interface of the cultures. J. Nat. Cancer Inst. 10: 865; 1067.
- \*—— (Shelton and Schilling): Production of malignancy in vitro. XI. Further results from reinjection of in vitro cell strains into strain C₃H mice. J. Nat. Cancer Inst. 10: 1105.
- ——See also Algire, Glenn H. (Chalkley and Earle); Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker); Schilling, Edward L. (Earle and Evans).
- Eddy, Bernice E. (and Ward): A subtype of influenza A virus which is virulent for mice (abstract). In Proc. 50th general meeting, Society of American Bacteriologists, p. 71.
- ——— (and Wyckoff): Influenza virus in sectioned tissues. Proc. Soc. Exper. Biol. and Med. 75: 290.
- ---- See also Ward, Thomas G. (and Eddy).
- Eden, M. (Pratt and Kahler): A microtome specimen holder advanced by thermal expansion. Rev. Scient. Instruments 21: 802.
- Edgcomb, John H. (Arnold, Yount, Alving, Eichelberger, Jeffery, Eyles, and Young): Primaquine, SN 13272, a new curative agent in *vivax* malaria. A preliminary report. J. Nat. Malaria Soc. 9: 285.
- Edwards, P. R. (and West): Unusual types of enteric bacteria. J. Infect. Dis. 87: 184.
- Eisele, C. Wesley (McCullough and Beale): Brucellosis and multiple sclerosis. J. Am. Med. Assoc. 143: 1473.
- Eisenman, A. J.: See Isbell, Harris (Altschul, Kornetsky, Eisenman, Flannary, and Fraser).
- \*Eklund, Carl M. (Brennan and Bell): Final report to the Pan-American Sanitary Bureau regarding the 1948–49 outbreak of eastern equine encephalitis in the Dominican Republic. Bol. de Ofic. san. panam. 29: 493.
- Ellerbrook, L. D.: See Thornton, Helen (Ellerbrook, Rhees, Stowell, and Lippincott.
- Elliott, David C.: Effect of aureomycin in ocular complications of leprosy. Am. J. Ophth. 33: 1029.
- \*Emmons, Chester W.: Histoplasmosis: Animal reservoirs and other sources in nature of the pathogenic fungus, *Histoplasma*. Am. J. Pub. Health 40: 436.
- Erickson, Paul T.: Relapse following apparent arrest of leprosy by sulfone therapy. Pub. Health Rep. 65: 1147.
- ---- See also Johansen, Frederick A. (and Erickson).
- Eschenbrenner, Allen B. (and Miller): Effects of roentgen rays on testis: Quantitative histologic analyses following whole-body exposure of mice. Arch. Path. 50: 735.
- Essig, Carl F. (and Marshall): The enhancement of spreading cortical depression by a dializing technique. Proc. Soc. Exper. Biol. and Med. 75: 429.
- Ettinger, M. B. (Moore and Lishka): The anerobic persistence of phenol and L-cresol (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 8S.
- ——— (Ruchhoft and Lishka): Sensitizing the 4-aminoantipyrine reaction with phenolic materials for use in water and waste analysis (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 8S.

- Ettinger, M. B. See also Christenson, C. W. (Ettinger, Robeck, Hermann, Kohr, and Newell).
- Evans, Virginia J: See Earle, Wilton R. (Evans and Schilling); Schilling, Edward L. (Earle and Evans).
- Ewing, W. H. (and Kauffmann): A new coli O-antigen group. Pub. Health Rep. 65: 1341.
- ——— (Taylor and Hucks): The Alkalescens-Dispar group. Pub. Health Rep. 65: 1474.
- Eyles, Don E.: A stain for malarial occysts in temporary preparations. J. Parasitol. 36: 501.
- —— (and Young): The comparative susceptibility of Anopheles albimanus and Anopheles quadrimaculatus to a South Carolina strain of Plasmodium falciparum. J. Infect. Dis. 87: 189.
- —— See also Coatney, G. Robert (Cooper, Eyles, Culwell, White, and Lints); Cooper, W. Clark (Coatney, Culwell, Eyles, and Young); Edgcomb, John H. (Arnold, Yount, Alving, Eichelberger, Jeffery, Eyles, and Young); Jeffery, Geoffrey (Eyles and Young).

#### F

- Fairhall, Lawrence T. (Highman and Perone); The physiological response to dust from locomotive traction material. Pub. Health Rep. 65: 1003.
- Ferebee, Shirley H.: See Long, Esmond R. (and Ferebee); Palmer, Carroll E. (Ferebee and Petersen).
- Ferguson, M. S.: Life cycle of Diphyllobothrium latium, broad fish tapeworm, (abstract). Anat. Rec. 108: 546.
- Findlay, Stephen P. (and Small): The preparation and degradation of 6-methylcodeine. J. Am. Chem. Soc. 72: 3249.
- The preparation and properties of codeinnone. J. Am. Chem. Soc. 72: 3247.
- Fink, Marvin: See Helrich, Martin (Papper, Brodie, Fink, and Rovenstine).
- Firminger, Harlan I.: Carbowax embedding for obtaining thin tissue sections and study of intracellular lipids. Stain Technol. 25: 121.
- Ultraviolet absorption spectromicroscopy of interstitial cells of testis using carbowax embedding. J. Nat. Cancer Inst. 10: 1350.
- Fitzgerald, Robert J. (Zander and Jordan): The effects of a penicillin dentrifrice on oral lactobacilli. J. Am. Dent. Assoc. 41: 62.
- Flannary, H. F.: See Isbell, Harris (Altschul, Kornetsky, Eisenman, Flannary, and Fraser).
- Fleischman, R.: See Eagle, Harry (Fleischman and Musselman).
- Fletcher, Hewitt G., Jr. (Diehl and Hudson): Improvements in the preparation of D-arabinose from calcium D-gluconate and of D-lyxose from calcium D-galactonate. J. Am. Chem. Soc. 72: 4546.
- (and Hudson): The reaction of tribenzoyl- $\beta$ -D-arabinopyranosyl bromide and tribenzoyl- $\alpha$ -D-xylopyranosyl bromide with methanol in the absence of an acid acceptor. *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 9R.
- ——— The reaction of tribenzol-β-D-arabinopyranosyl bromide and tribenzoyl-α-D-xylopranosyl bromide with methanol in the absence of an acid acceptor. J. Am. Chem. Soc. 72: 4173.
- ——— (and Richtmyer): Applications in the carbohydrate field of reductive desulfurization by Raney nickel. In Advances in carbohydrate chemistry, New York, Academic Press, vol. 5, p. 1.
- -----See also Ness, Robert K. (Fletcher and Hudson).

- \*Fodor, A. (and Fodor): The structure of the acropeptides. Science 111: 678. Fodor, P. J.: See Fodor, A. (and Fodor).
- Fones, William S. (Waalkes and White): Studies on the conversion of L-valine to glucose and glycogen in rats (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 38C.
- ——— (and White): Studies on the metabolism of L-valine in phlorizinized and fasted animals. Arch. Biochem. 28: 145.
- ---- See also Waalkes, T. Phillip (Fones and White).
- \*Forbisher, Martin, Jr. (and Parsons): Studies on type-specific immunization with somatic antigens of Corynebacterium diphtheriae. Am. J. Hyg. 52: 239.
- Fox, Charlotte (and Birren): The differential decline of subtest scores of the Wechsler-Bellevue intelligence scale in 60-69 year old individuals (abstract).
  J. Genet. Psychol. 77: 313.
- ——Intellectual deterioration in the aged: Agreement between the Wechsler-Bellevue and the Babcock-Levy. J. Consulting Psychol. 14: 305.
- The measurement of intellectual deterioration in the aged (abstract) Am. J. Psychol. 5: 364.
- --- See also Birren, James E. (Fox and Botwinick).
- \*Fox, Irving (and Kohler): Distribution and relative abundance of species of biting midges or *Culicoides* in Eastern Puerto Rico, as shown by light traps. Puerto Rico J. Pub. Health and Trop. Med. 25: 342.
- Frankhauser, Keith H.: See Tabor, Elbert C. (and Frankhauser).
- Fraser, H. F.: See also Isbell, Harris (Altschul, Kornetsky, Eisenman, Flannary, and Fraser); Isbell, Harris (and Fraser).
- Freeble, Charles R., Jr. (Wright, Donohue, and Bolin): The Ohio National Guard blood-testing program. J. Ven. Dis. Inform. 31: 231.
- ——— (Wright, Donohue, and Pratt): Suggested technics for mass health education at county fairs. J. Ven. Dis. Inform. 31: 308.
- Fry, Edward M.: Oxazoline ring-opening. J. Org. Chem. 15: 802.
- Fu, Shou-Cheng J. (Levintow, Price, and Greenstein): Preparation and properties of α-α-di-(acylamino) alphatic acids. Arch. Biochem. 28: 440.
- ————Preparation and properties of α,α-di (acylamino) alphatic acids (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 25C.
- (Price and Greenstein): Alkali-catalyzed ring closure of pyruvoyl-glycine (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 24C
- ---- See also Corwin, Alsoph H. (and Fu).
- Furculow, Michael L.: Further observations on histoplasmosis. Mycology and bacteriology. Pub. Health Rep. 65: 965.

#### G

- Gafafer, W. M.: Industrial sickness absenteeism. Males and females, 1949, and males, first and second quarters, 1950. Pub. Health Rep. 65: 1556.
- —— Sickness absenteeism among a sample of member companies of I. H. F. In Transaction Bulletin, Pittsburgh, Pa., Industrial Hygiene Foundation, 1950, p. 92
- Gaines, Thomas B.: See Hayes, Wayland J., Jr. (and Gaines).
- \*Germuth, Frederick G., Jr. (Eagle and Oyama): The rate of disappearance of Leishmania donovani from the spleen of the infected golden hamster following a single injection of a pentavalent antimonial. Am. J. Trop. Med. 30: 371.

- \*Germuth, Frederick G., Jr. (Eagle and Oyama): An evaluation of the criteria of cure in experimental leishmaniasis of the golden hamster. Am. J. Trop Med. 30: 377.
- ——— (and Ottinger): The effect of 17-hydroxyl-11-dehydrocorticosterone (compound E) and of pituitary adrenocorticotrophic hormone on the production of experimental anaphylactic hypersensitivity and antibody formation in the rabbit. Proc. Soc. Exper. Biol. and Med. 75: 815.
- Gibson, Colvin L.: The early developmental stage of Onchocerca volvulus in Guatemalan species of Simulium (abstract). J. Parasitol. 36: 29, Supp.
- Gillick, Frederick G. (and Reynolds): Electrokymographic observations in constrictive pericarditis. Radiology 55: 77.
- Goette, Mary B.: See Pearce, George W. (Goette and Spillane).
- Goldin, A. (Greenspan, Goldberg, and Schoenbach): Studies on the mechanism of action of chemotherapeutic agents in cancer. I. Sex difference in toxicity to the folic acid analogue, 4-aminopteroylglutamic acid. Cancer 3: 849.
- ——— (Greenspan and Schoenbach): Studies on the mechanism of action of chemotherapeutic agents in cancer. IV. Relationship of guanine and guanylic acid to the action of guanazolo on lymphoid tumors in mice and rats. J. Nat. Cancer Inst. 11: 319.
- —— See also Greenspan, Ezra M. (Goldin and Schoenbach); Schoenbach, Emanuel B. (Goldin and Greenspan).
- Goldstein, Marcus S.: Medical group practice. J. Nat. Med. Assoc. 42: 223.
- Goodwin, Mary S: Status of treatment of syphilitic pregnant women and of children who have congenital syphilis. J. Ven. Dis. Inform. 31: 185.
- Grant, Robert P.: Spatial vector electrocardiography. Circulation 2: 676.
- Gray, A. L. (Usilton and Iskrant): Measurement of trend of syphilis in Mississippi. J. Ven. Dis. Inform. 31: 225.
- Greenberg, Bernard G.: See Thompson, Frederick A., Jr. (Greenberg and Magnuson).
- Greenberg, Joseph (and Richeson): Potentiation of the antimalarial activity of sulfadiazine by 2, 4-diamino-5-aryloxypyrimidines. J. Pharmacol. and Exper. Therap. 99: 444.
- (and Taylor): The effect of dietary carbohydrate on Endamoeba hystolytica infections in the rat. J. Parasitol. 36: 21, Supp.
- ——— (Trembley and Coatney): Strain differences in *Plasmodium gallinaceum* Brumpt. I. Differences in the behavior of the exoerythrocytic forms of a blood-passaged (BI) and sporozite-passaged (SP) strain of *Plasmodium gallinaceum*. J. Nat. Malaria Soc. 9: 320.
- —— See also Josephson, Edward S. (Taylor, Greenberg, and Ray); Taylor, D. Jane (Greenberg, Highman, and Coatney).
- Greenhouse, Samuel W. (and Cornfield): The Youden index: Letter to the editor. Cancer 3: 1097.
- ——— (and Mantel): The evaluation of diagnostic tests (abstract). Biometrics 6: 399.
- ---- See also Dunn, John E., Jr. (and Greenhouse).
- Greenspan, Ezra M. (Goldin and Schoenbach): Studies on the mechanism of action of chemotherapeutic agents in cancer. II. Requirements for the prevention of aminopterin toxicity by folic acid in mice. Cancer 3: 856.
- —— (Leiter and Shear): Effect of alpha-peltatin, beta-peltatin, and podophyllotoxin on lymphomas and other transplanted tumors. J. Nat. Cancer Inst. 10: 1295.
- -----See also Goldin, A. (Greenspan, Goldberg, and Schoenbach); Goldin, A. (Greenspan and Schoenbach); Morrow, Andrew G. (Greenspan and Carroll);

- Schoenbach, Emanuel B. (Goldin and Greenspan); Schoenbach, Emanuel B. (Greenspan and Colsky); Snapper, I. (and Greenspan).
- Greenstein, Jesse P.: The present status of cancer research. Sc. Counselor 8: 135.
- —— (Levintow, Baker, and White): Preparation of the four stereoisomers of isoleucine (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 24C.
- Greiner, Theodore: Sec Clarke, Donald A. (Modell, Greiner, Kwit, Gluck, and Gold).
- Griffitts, J. J.: See Davis, Dorland J. (Pittman and Griffitts).
- Grobstein, Clifford: Production of intra-ocular hemorrhage by mouse trophoblast. J. Exper. Zool. 114: 359.

#### H

- \*Habel, Karl: Purification of brain tissue vaccines. General considerations. Am. J. Pub. Health 40: 444.
- Hall, Lawrence B.: Establishing a malaria demonstration control program in Iran, CDC Bull. 9: 25, July.
- —— The Equipment Development Section of the Technical Development Services. CDC Bull. 9: 22. Nov.
- Hanan, Robert: The effect of tocopheryl esters on influenza virus. Proc. Soc. Exper. Biol. and Med. 75: 440.
- Hanchett, Leland J. (and Perry): Results of penicillin treatment in congenital syphilis. J. Ven. Dis. Inform. 31: 277.
- Hanlon, C. Rollins (Scott and Olson): Experimental tuberculosis. I. Effects of anastomosis between systemic and pulmonary arteries on tuberculosis in monkeys. Surgery 28: 209.
- Harding, Clifford V.: The action of heparin on fertilization in the eggs of Arbaeia punctulata and Echinarchnius parma (abstract). Biol. Bull. 99: 340.
- Hartwell Jonathan L. (and Schrecker): Components of podophyllin. IV. The constitution of podophyllotoxin. J. Am. Chem. Soc. 72: 3320.
- The constitution of the apopicropodophillins (abstract). In Abstracts of papers, 118th meeting of the American Chemical Society, p. 18M.
- ——See also Leiter, J. (Downing, Hartwell, and Shear).

  Haskins, William T. (and Luttermoser): The comparative toxicities of the anti-
- monyl derivatives of the four isomeric potassium acid tartrates. Am. J. Trop. Med. 30: 591.
- —— (Luttermoser and Brady): The physiological disposition of diodoquin, vioform, and chiniofon in the rabbit as determined with radioiodine. Am. J. Trop. Med. 30: 599.
- ----- See also Luttermoser, George W. (Haskins, Coleman, and Jumper).
- Hayes, Wayland J., Jr.: Present status of Warfarin as a rollenticide. CDC Bull. 9: 28, Aug.
- Toxicology of insecticides. CDC Bull. 9: 1, Nov.
- ---- (and Gaines): Control of Norway rats with residual rodenticide Warfarin. Pub. Health Rep. 65: 1537.
- (and Simmons): The benefits and hazards of insecticides to public health.
   Advances in chemistry, Series 1, p. 56.
- Helrich, Martin (Papper, Brodie, Fink, and Rovenstine): The fate of intrathecal procaine and the spinal fluid level required for surgical anesthesia. J. Pharmacol. and Exper. Therap. 100: 78.
- Herndon, John F.: See Schubert, Joseph H. (and Herndon).

- Hertz, Roy: Endocrine and vitamin factors in hormone-induced tissue growth. Texas Rep. Biol. and Med. 8: 154.
- Nutritional factors affecting hormone-induced tissue growth: Folic acid and the biotin-avidin complex (abstract). Proc. Internat. Cancer Cong., p. 124.
   See also Allen, Milton J. (Hertz and Tullner).
- Heston, W. E.: Carcinogenic action of the mustards. J. Nat. Cancer Inst. 11: 415.
- \*—— (Deringer, Dunn, and Levillain): Factors in the development of spontaneous mammary gland tumors in agent-free strain C<sub>2</sub>Hb mice. J. Nat. Cancer Inst. 10: 1139.
- Highman, Benjamin (and Altland): A new method for the production of experimental bacterial endocarditis. Proc. Soc. Exper. Biol. and Med. 75: 573.
- —— See also Altland, Paul D. (and Highman); Fairball, Lawrence T. (Highman and Perone); Taylor, D. Jane (Greenberg, Highman, and Coatney).
- \*Hine, G. J.: An automatic isodose recorder. Electrical Engin. 69: 69a.
- Hogeboom, George H. (and Schneider): Cytochemical studies of mammalian tissues. III. Isocitric dehydrogenase and triphosphipyridine nucleotide-sytochrome c reductase of mouse liver. J. Biol. Chem. 186: 417.
- \* — Intracellular distribution of enzymes. VIII. The distribution of diphosphopyridine nucleotide-cytochrome c reductase in normal mouse liver and mouse hepatoma. J. Nat. Cancer Inst. 10: 983.
- ----- Sonic disintegration of isolated liver mitochondria. Nature 166:
- —— See also Schneider, Walter C. (and Hogeboom); Schneider, Walter C. (Hogeboom and Ross).
- Hollcroft, Joanne (Lorenz and Hunstiger): Effects of ionizing radiations on a transplanted lymphosarcoma. J. Nat. Cancer Inst. 11: 1.
- Hopkins, Glen J.: Some public health implications of the Missouri Valley development program. Am J. Pub. Health 40: 917.
- Horecker, B. L. (and Smyrniotis): Enzymatic production of ribose-5-phosphate from 6-phosphogluconate. Arch. Biochem. 29: 232.
- \*Houssay, B. A.: Rôle de l'hypophyse dans le métabolisme des hydrates de carbone et le diabète [Role of the hypophysis in carbohydrate metabolism and diabetes]. Fol. endocr., Pisa 3: 127.
- Fisiopatologia de la diabète (Physiopathology of diabetes). Rev. As. méd. argent. 64: 105.
- \*Howitt, B. F.: Isolation and differentiation of the Coxsackie group of viruses. Federation Proc. 9: 574.
- \*Hoyer, Bill H.: Some aspects of the physiology of *Brucella* organisms. *In* Brucellosis. A symposium, Washington, D. C., American Association for the Advancement of Science, p. 9.
- Hucks, M. C.: See Ewing, W. H. (Taylor and Hucks).
- Hudson, C. S.: See Fletcher, Hewitt G., Jr. (Diehl and Hudson); Fletcher, Hewitt G., Jr. (and Hudson); Ness, Robert K. (Fletcher and Hudson); Pratt, James W. (Richtmyer and Hudson); Richtmyer, Nelson K. (and Hudson); Richtmyer, Nelson K. (Stewart and Hudson); Zissis, Emmanuel (Richtmyer and Hudson).
- Huebner, Robert J.: Rickettsialpox and Q fever. Bact. Rev. 14: 245.
- ——— (Armstrong, Beeman, and Cole): Studies of Coxsackie viruses. Preliminary report on occurrence of Coxsackie virus in a southern Maryland community (abstract). J. Am. Med. Assoc. 144: 609.

- Huebner, Robert J.: See also Bell, Joseph A. (Beck and Huebner); Ransom, Sara Elizabeth (and Huebner).
- \*Hueper, W. C.: Environmental and occupational cancer. Pub. Health Rep. Supp. No. 209 Rev.
- Evironmental cancer hazards caused by industrial air pollution. Arch. Indust, Hyg. and Occup. Med. 2: 325.
- ——— A methodology for environmental and occupational cancer surveys. Public Health Service, Public Health Technical Monograph No. 1.
- ——Present and potential occupational cancer hazards and carcinogenic operations in modern industry. South. M. J. 43: 118.
- ——The role of environmental agents in the causation of human cancer. Acta Unio Internationalis Contra Cancrum 6: 1295.
- \*\_\_\_\_\_ The significance of occupational cancer for industry and public health.

  Acta Unio Internationalis Contra Cancrum 6: 1351.
- Hughes, John H.: 1080 (sodium fluoroacetate) poisoning of rats on ships. Pub. Health Rep. 65: 1021.
- Hughes, Lyndahl E.: See Philip, Cornelius B. (Hughes, Rao, and Kalra).
- Hundley, James M.: Achromotrichia due to copper deficiency. Proc. Soc. Exper. Biol. and Med. 74: 531.
- Role of copper in achromotrichia in rats. Abstract interrelations of various dietary and hormonal factors. In Proc. 18th Internat. Physiol. Cong., p. 270.
   See also Pecora, Louis J. (Ashburn and Hundley).
- \*Hunninen, Arne V. (Young and Burgess): The infection of anopheline mosquitoes by native avian malaria. J. Nat. Malaria Soc. 9: 145.
- Hunstiger, Harriet: See Hollcroft, Joanne (Lorenz and Hunstiger).
- Huse, Betty (and Aufranc): A proposal for joint action against congenital syphilis. J. Ven. Dis. Inform. 31: 174.

1

- Imboden, C. A., Jr. (Cooper, Coatney, and Jeffery): Studies in human malaria. XXIX. Trials of aureomycin, chloroamphenicol, penicillin, and dihydrostreptomycin against the Chesson strain of *Plasmodium vivax*. J. Nat. Malaria Soc. 9: 377.
- ——— See also Coatney, G. Robert (Cooper, Culwell, White, and Imboden); Cooper, W. Clark, Coatney, Jeffery, and Imboden).
- \*Innes, J. R. M.: Demyelinating diseases of animals. Research Publ. Assoc. Nerv. and Ment. Dis. 28: 75.
- \* Experimental allergic encephalitis and implications regarding the aetiology of demyelinating diseases of man and animals. A review. Brit. Vet. J. 106: 93.
- —— (Berger and Francis): Subacute bacterial endocarditis with pulmonary embolism in a horse with Shigella equirulis. Brit. Vet. J. 106: 254.
- ----- See also Van Bogaert, Ludo (and Innes).
- Isbell, Harris: Addiction to barbiturates and the barbiturate abstinence syndrome. Ann. Int. Med. 33: 108.
- —— (Altschul, Kornetsky, Eisenman, Flannary, and Fraser): Chronic barbiturate intoxication. An experimental study. Arch. Neurol. and Psychiat. 64: 1.
- ---- (and Fraser): Addiction liabilities of morphinan, 6-methyldihydromorphine and dihydrocodeinone. J. Pharmacol, and Exper. Therap. 100: 128.
- Addiction to analgesics and barbiturates. J. Pharmacol. and Exper. Therap. 99: 355.
- Iskrant, Albert P.: See Gray, A. L. (Usilton and Iskrant).

- Jacobs, Leon: Oxidation-reduction potentials in the cultivation of Endumoeba histolytica. Am. J. Trop. Med. 30: 803.
- ——— (and Jones): The parasitemia in experimental toxoplasmosis. J. Infect. Dis. 87: 78.
- ——— (Woke and Jones): Studies on the transmission of *Toxoplasma gondii* (abstract). J. Parasitol. 36: 36, Supp.
- Jaffe, H. H. (and Doak): Disproportionation of aromatic Stiboso compounds. III. Effect of structure. J. Am. Chem. Soc. 72: 3027.
- ----- See also Doak, G. O. (and Jaffe).
- Jeffery, Geoffrey M.: Incidence of *Enterobius vermicularis* in Puerto Rican children, with a comparison of two diagnostic methods. J. Parasitol. 36: 485.
- ——— (Eyles and Young): The comparative susceptibility of Anopheles quadrimaculatus and two strains of Anopheles albimanus to a Panama strain of Plasmodium falciparum. J. Nat. Malaria Soc. 9: 349.
- ——See also Cooper, W. Clark (Coatney, Jeffery, and Imboden); Edgcomb, John H. (Arnold, Yount, Alving, Eichelberger, Jeffery, Eyles, and Young); Imboden, C. A., Jr. (Cooper, Coatney, and Jeffery).
- Jellison, William L.: Haplomycosis in Montana rabbits, rodents, and carnivores. Pub. Health Rep. 65: 1057.
- ——Tularemia. Geographical distribution of "deerfly fever" and the biting fly, Chrysops discalis Williston. Pub. Health Rep. 65: 1321.
- —— (Epler, Kuhns, and Kohls): Tularemia in man from a domestic rural water supply. Pub. Health Rep. 65: 1219.
- ——— (and Kohls): Persistence of agglutinins against *Pasteurella tularensis* in serums of naturally infected sheep. J. Am. Vet. Med. Assoc. 117: 405.
- Jenkins, Kenneth H.: See Cole, H. N. (Plotke, Thomas, and Jenkins).
- Jensen, Jens A.: The radioactive isotope laboratory unit at Technical Development Services. CDC Bull. 9: 26, Nov.
- Johansen, Frederick A. (and Erickson): Current status of therapy in leprosy.
  J. Am. Med. Assoc. 144: 985.
- \*Johnson, F. H. (Flagler and Blum): Relation of oxygen to photoreactivation of bacteria after ultraviolet radiation. Proc. Soc. Exper. Biol. and Med. 74: 32.
- Johnson, James M.: See Morris, Harold P. (Dubnik and Johnson).
- \*Johnson, P. T. (and Thurman): The occurrence of Aedes (Ochlerotatus) pullatus (Coquilett), in California (Diptera: Culicidae). Pan-Pacific Entom. 26: 107
- Johnston, Helen L.: Rural health cooperatives. Pub. Health Rep. 65: 1383.
- Johnwick, Edgar B.: The treatment of neurosyphilis: Penicillin alone versus penicillin plus arsenic and bismuth. J. Ven. Dis. Inform. 31: 303.
- Jones, Frances E.: See Jacobs, Leon (and Jones); Jacobs, Leon (Woke and Jones).
- Jones, Genevieve S.: See Bryant, Zella (and Jones).
- \*Jones, Jack Colvard: The normal hemocyte picture of the yellow meal-worm. Tenebrio molitor Linnaeus. Iowa State College J. Sc. 24: 355.
- Jordan, Harold V.: See Fitzgerald, Robert J. (Zander and Jordan).
- Josephson, Edward S. (Taylor, Greenberg, and Ray): Metabolites of pamaquine (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 10C.
- Jumper, John R.: See Luttermoser, George W. (Haskins, Coleman, and Jumper).

- Kahler, Herbert: See Dalton, Albert J. (Kahler, Striebich, and Lloyd).
- ——— (and Lloyd): Metallic evaporation and the diameter of tobacco mosaic virus with the electron microscope. J. Appl. Physics 21: 699.
- ---- See also Eden, M. (Pratt and Kahler).
- Kaiser, Raymond F.: The cancer program in medical schools. A review. Pub. Health Rep. 65: 1397.
- ----- Why cancer "control"? Pub. Health Rep. 65: 1203.
- Kaplan, Henry S.: Influence of ovarian function on incidence of radiation-induced ovarian tumors in mice. J. Nat. Cancer Inst. 11: 125.
- —— Influence of thymectomy, splenectomy, and gonadectomy on incidence of radiation-induced lymphoid tumors in strain C57 black mice. J. Nat. Cancer Inst. 11: 83.
- ---- See also Stewart, Harold L. (Kaplan and Bennett).
- Kaufman, Miriam: Planning, equipping, and appraising hospital dietary facilities. I. and II. Hosp. Management 70: 84, July; 82, Aug.
- Keister, Margaret L.: See Buck, John B. (and Keister).
- Kelley, Mary H.: See Schubert, Joseph H. (and Kelley).
- Kielly, Ruth K. (and Schneider): Synthesis of p-aminohippuric acid by mitochondria of mouse liver homogenates. J. Biol. Chem. 185: 869.
- Kilham, Lawrence: Evaluation of the agglutination of erythrocytes sensitized by Newcastle disease virus (NDV) as a serologic test in infectious mononucleosis. J. Immunol. 65: 2.
- \*——Transmission and multiplication of Newcastle disease virus (NDV) in brains of suckling mice. Proc. Soc. Exper. Biol. and Med. 74: 220.
- \*King, Elizabeth O. (Forbisher and Parsons): Further studies on the *in vitro* test for virulence of *Corynebacterium diphtheriae*. Am. J. Pub. Health 40: 704.
- Klein, Michael. Transplantation studies on an induced fibrosarcoma in rats.

   I. Influence of sex on incidence of tumor takes; II. Influence of sex hormones and repeated transplantation on tumor immunity.
   Nat. Cancer Inst. 11: 377; 381.
- Klem, Margaret C. (McKiever and Lear); Industrial health and medical programs. Public Health Service Pub. No. 15, 397 pp.
- Knutson, John W.: See Dean, H. Trendley (Arnold, Jay, and Knutson).
- Kohler, C. E.: See Fox, Irving (and Kohler).
- Kohls, Glen M.: Two new species of ticks from Ceylon (Acarina: Ixodidae).
  J. Parasitol. 36: 319.
- —— See also Brown, John H. (and Kohls); Jellison, William L. (Epler, Kuhns, and Kohls); Jellison, William L. (and Kohls).
- Kohn, Henry I.: Changes in blood plasma of guinea pig during radiation syndrome. Am. J. Physiol. 162: 703.
- ——— Changes in the plasma of the rat during fasting, and the influence of genetic factors upon the sugar and cholesterol levels. Am. J. Physiol. 163: 411. Kolb, Robert W.: See Schneiter, Roy (and Kolb).
- Kornberg, Arthur (and Pricer): On the structure of triphosphopyridine nucleotide (TPN). J. Biol. Chem. 186: 557.
- Kornetsky, C. H.: See Isbell, Harris (Altschul, Kornetsky, Eisenman, Flannary, and Fraser).
- Krantz, J. A., Jr.: See Truitt, E. B., Jr. (McKusick and Krantz).
- Krieger, H. L.: See Ludzack, F. J. (Moore, Krieger, and Ruchhoft); Newell, John F. (Christenson, Shaykin, Krieger, Moeller, and Ruchhoft).

Kurland, Leonard T. (Bowman, Bradford, Burns, and Campbell): Multiple sclerosis in the United States and Canada with special reference to Winnipeg, Manitoba. Manitoba Med. Rev. 30: 700.

--- See also Spicknall, Charles G. (Kurland, Carle, and Terry).

#### L

\*Labaw, Louis W. (Mosley and Wyckoff): Electron microscopy of ultraviolet irradiated bacteria and their interaction with bacteriophage. Biochimica et Biophysica Acta 5: 327.

Lackman, D. B. (Parker and Pickens): The isolation and characterization of Rocky Mountain spotted fever Rickettsiae from the rabbit tick *Haemaphysalis leporis-palustris* (abstract). *In* Proc. 50th general meeting, Society of American Bacteriologists, p. 91.

Landefeld, Martha O.: See Reid, James C. (Landefeld and Gray).

Langmuir, A. D.: See Andrews, Justin M. (Quinby and Langmuir).

Larson, C. L.: See Carle, Birdsall N. (and Larson).

\*Lastra, Ivonne (and Coatney): Transmission of Haemoproteus columbae by blood inoculation and tissue transplants. J. Nat. Malaria Soc. 9: 151.

Latham, H. George (May and Mosettig): Amino- and guanidino-phenylglucosides, J. Org. Chem: 15: 884.

Law, Frank E. (and Ruble): Dental caries in morphine addicts—as determined by clinical and radiographic examination. Pub. Health Rep. 65: 1336.

Law, L. W. (and Boyle): Studies on the development of resistance to folic acid antagonists in a transplantable lymphoid leukemia. Proc. Soc. Exper. Biol. and Med. 74: 599.

—— (and Miller): The influence of thymectomy on the incidence of carcinogeninduced leukemia in strain dba mice. J. Nat. Cancer Inst. 11: 253.

Observations on the effect of thymectomy on spontaneous leukemias in mice of the high-leukemic strains RIL and C58. J. Nat. Cancer Inst. 11: 425.

Lear, Walter J.: See Klem, Margaret C. (McKiever and Lear).

\*Leiter, J. (Downing, Hartwell, and Shear): Damage induced in sarcoma 37 with podophyllin, podophyllotoxin alpha-peltatin, beta-peltatin, and quercetin. J. Nat. Cancer Inst. 10: 1273.

----- See Greenspan, Ezra M. (Leiter and Shear).

Levillain, Wayne D.: See Heston, W. E. (Deringer, Dunn, and Levillain).

Levine, B. S.: Effect of formaldehyde on the direct microscopic count of raw milk. Pub. Health Rep. 65: 931.

Levintow, Leon: See Fu, Shou-Cheng J. (Levintow, Price, and Greenstein); Greenstein, Jesse P. (Levintow, Baker, and White).

Levitan, Sacha: See Arnold, R. C. (Wright and Levitan).

Lewis, J. L., Jr.: See Terry, Luther L. (Lewis and Sessoms).

Liberti, D. V.: See Wright, R. D. (and Liberti).

Likely, Gwendolyn: See Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker).

Lillie, R. D.: Further exploration of the HIO<sub>4</sub>—Schiff reaction with remarks on its significance. Anat. Rec. 108: 239.

Link, Vernon B.: Plague. CDC Bull. 9: 1, Aug; J. Am. Med. Soc. 144: 375.

——— (Longergan and Prince): The 1950 plague epidemic in Bay City, Utopia. CDC Bull. 9: 19, Aug. Link, Vernon B.: (and Prince): Methods used in plague transmission studies, CDC Bull. 9: 15, Aug.

Lints, Herbert A.: See Coatney, G. Robert (Cooper, Eyles, Culwell, White, and Lints).

Lippincott, S. W.: See Thornton, Helen (Ellerbrook, Rhees, Stowell, and Lippincott).

Lishka, R. J.: See Ettinger, M. B. (Moore and Lishka); Ettinger, M. B. (Ruchhoft and Lishka).

Lloyd, Bolivar J.: See Dalton, Albert J. (Kahler, Striebich, and Lloyd); Kahler, H. (and Lloyd).

Long, Esmond R. (and Ferebee): A controlled investigation of streptomycin treatment in pulmonary tuberculosis. Pub. Health Rep. 65: 1421.

Longergan, Richard P.: See Link, Vernon B. (Longergan and Prince).

\*Lorenz, Egon: Some biologic effects of long continued irradiation. Am. J. Roent. and Radium Therap. 63: 176.

——— See also Bryan, W. Ray (Lorenz and Moloney); Hollcroft, Joanne (Lorenz and Hunstiger).

Low-Beer, B. V. A.: See Masouredis, S. P. (Low-Beer, Bierman, Cherney, and Shimkin).

Ludzack, F. J. (Moore, Krieger, and Ruchhoft): Effect of cyanide on the self-purification of sewage and polluted water (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 48.

----- See also Moore, W. Allan (Ludzack and Ruchhoft).

Luttermoser, George W. (Haskins, Coleman, and Jumper): Chemotherapy of Endamoeba histolytica infections in the rabbit (abstract). J. Parasitol. 36: 21, Supp.

Lyman, F. Earle: See Bradley, George H. (and Lyman).

Lyons, W. R.: See Slattery, Paul A. (Lyons and Shimkin).

#### M

Maas, W. K.: A temperature-sensitive pantothenicless mutant of *Escherichia coli* (abstract). In Proc. 50th general meeting, Society of American Bacteriologists, p. 129.

Magnuson, Harold J.: See Thompson, Frederick A., Jr. (Greenberg and Magnuson).

\*Maldonado, José F. (Matienzo and Herrera): Biological studies on the miracidium of *Schistosoma mansoni*. Part 3. The role of light and temperature in hatching. Puerto Rico J. Pub. Health and Trop. Med. 25: 359.

Malmgren, R. A. (and Bennison): Serologic properties of mitochondria isolated from normal and neoplastic mouse tissues. J. Nat. Cancer Inst. 11: 301.

Mantel, Nathan: See Greenhouse, Samuel W. (and Mantel).

Marder, Sumner N.: Survival, body weights, and lymphoid tissue weights following adrenalectomy in CBA mice. J. Nat. Cancer Inst. 11: 133.

Markos, Basil G.: See Peters, Richard F. (Thurman, Markos, and Mulhern).

Marshall, Louise H. (and Specht): Changes in renal function accompanying acclimatization to reduced barometric pressure (abstract). Am. J. Physiol. 163: 733.

Marshall, Wade H.: See Essig, Carl F. (and Marshall).

Masouredis, S. P. (Low-Beer, Bierman, Cherney, and Shimkin): The partition of radiophosphorus (P<sup>32</sup>) in blood, urine, and tumor tissue in patients with

- Hodgkin's disease and lymphosarcoma before and after treatment with nitrogen mustard (methyl bis (beta-chloroethyl) amine). J. Nat. Cancer Inst. 11: 289.
- —— (Shimkin, McMillan, and Fox): Distribution of radioactivity in tissues of normal and tumor bearing mice following intravenous administration of radioiodotetrazolium salt. J. Nat. Cancer Inst. 11: 91.
- Mathews, Margie M.: See Blum, Harold F. (and Mathews).
- Matienzo, Josefina Acosta: See Maldonado, José F. (Matienzo and Herrera).
- Maver, Mary E.: See Bryan, W. Ray (Maver, Moloney, Wood, and White).
- May, Everette L. (and Mosettig); Amino- and guanidino-phenylglucosaminides. J. Org. Chem. 15: 890.
- ----- See also Latham, H. George (May and Mosettig).
- May, Garnett H.: See Daniel, George E. (and May).
- McLeod, Charlotte: See Arnold, R. C. (Wright and McLeod).
- McClure, F. J.: Availability of fluorine in sodium fluoride vs. sodium fluosilicate. Pub. Health Rep. 65: 1175.
- ——Fluorine, ash, calcium, and phosphorus in human teeth. J. Dent. Res. 29: 315.
- \*McCullough, Norman B.: Laboratory tests in brucellosis. In Brucellosis. A symposium, Washington, D. C., American Association for the Advancement of Science, p. 116.
- ---- See also Eisele, C. Wesley (McCullough and Beale).
- McDonald, R. K.: See Miller, John H. (McDonald and Shock).
- McGibony, J. R. (and Block): The program of the regional council, Hosp. Prog. 31: 261.
- McKiever, Margaret F.: See Klem, Margaret C. (McKiever and Lear).
- McKusick, Victor A.: See Southworth, J. L. (McKusick, Peirce, and Rawson); Truitt, E. B., Jr. (McKusick and Krantz).
- McLendon, Sol B. (and Young): The response of *Plasmodium malariae* infections to metachloridine, clorguanide (paludrine), and intramuscular chloroquine (abstract). J. Parasitol. **36:** 23, Supp.
- \*McLimans, W. F. (Siem, Mark, and Pinska): A physiological study of virus parasitism. II. The effect of environmental temperature on the rates of oxygen consumption of normal eggs and eggs infected with Newcastle disease virus. J. Immunol. 64: 475.
- \*—— (Siem and Scholljegerdes): A physiological study of virus parasitism.

  I. A method for determining the oxygen uptake of individual embryonated eggs. J. Immunol. 64: 463.
- Mehlman, Benjamin: See von Brand, Theodor (Baernstein and Mehlman); von Brand, Theodor (Tobie and Mehlman).
- \*Meister, Alton: Lactic dehydrogenase activity of certain tumors and normal tissues. J. Nat. Cancer Inst. 10: 1263.
- —— (Sober and Tice): Enzymatic formation of CO<sub>2</sub> and L-alanine from aspartic acid by Clostridium welchii (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 39C.
- (and Tice): Transmission from glutamine to L-keto acids. J. Biol. Chem. 187: 173.
- See also Baker, Carl C. (and Meister).
- \*Mercado, Teresa I.: Observations on the respiration of triatomes. Puerto Rico J. Pub. Health and Trop. Med. 25: 428.
- Merwin, Ruth (Algire and Kaplan): Transparent-chamber observations of the response of a transplantable mouse mammary tumor to local roentgen irradiation. J. Nat. Cancer Inst. 11: 593.

Michael, Max, Jr. (Cole, Beeson, and Olson): Sarcoidosis: Preliminary report on a study of 350 cases with special reference to epidemiology. Am. Rev. Tuberc. 62: 403.

Miller, Eliza: See Eschenbrenner, Allen B. (and Miller).

Miller, John H. (McDonald and Shock): The renal extraction of p-aminohippurate (PAH) in the aged individual (abstract). J. Gerontol. 5: 384.

See also Birren, James E. (Schapiro and Miller); Law, L. W. (and Miller).

Mitchell, Joyce A.: See Rogosa, M. (and Mitchell).

Mohr, Carl O.: Human diseases harbored by domestic mice and rats. CDC Bull. 9: 11, Aug.

—— The plague problem in the United States. CDC Bull. 9: 8, Aug.

Moloney, John B.: See Bryan, W. Ray (Lorenz and Moloney); Bryan, W. Ray (Maver, Moloney, Wood, and White).

Moore, W. Allan (Ludzack and Ruchhoft): A comparative study of oxygen consumed methods (abstract). *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 28.

—— See also Ettinger, M. B. (Moore and Lishka); Ludzack, F. J. (Moore, Krieger, and Ruchhoft).

Morgan, P. Councilman (and Wyckoff): The electron microscopy of fowl pox virus within chorioallantoic membrane. J. Immunol. 65: 285.

----- See also Roza, Georg (Morgan, Szent-Györgyi, and Wyckoff).

Morgan, Walter C.: The relation of the lethal yellow (A<sup>7</sup>) gene to pulmonary tumor formation of obesity in an inbred strain of mice. J. Nat. Cancer Inst. 11: 263.

\*Morris, Harold P. (Dubnik and Johnson): Studies of the carcinogenic action in the rat of 2-nitro-, 2-amino-, 2-acetylamino-, and 2-diacetylaminofluorene after ingestion and after painting. J. Nat. Cancer Inst. 10: 1201.

Morris, Harold P. (Weisberger and Weisberger): The distribution of radioactivity following the feeding of carbon 14-labeled 2-acetylaminofluorene to rats. Cancer Research 10: 620.

——— (and Westfall): Some studies of the excretion of diazotizable material after feeding 2-acetylaminofluorene in rats. Cancer Research 10: 506.

—— See also Dalton, A. J. (Morris, Striebich, and Dubnik); Dubnik, Celia S. (Morris and Dalton).

Morrow, Andrew G.: The use of tantalum gauze in the closure of full-thickness defects in the chest wall: An experimental study in dogs. Surgery 28: 1016.

——— (Greenspan and Carroll): Comparative studies of liver glucuronidase activity in inbred mice. J. Nat. Cancer Inst. 10: 1199.

\*Morrow, Patrice L. (Bierman and Jenkins): Effect of ultrasonic vibration on the formed elements of blood from normal and leukemic subjects. J. Nat. Cancer Inst. 10: 843.

Mosettig, Erich: See Latham, H. George (May and Mosettig).

Mosley, Vernon M.: See Labaw, L. W. (Mosley and Wyckoff).

Mostofi, F. K.: See Bennison, B. E. (and Mostofi).

Mountin, Joseph W.: Multiple screening and specialized programs. Pub. Health Rep. 65: 1359.

\*Mowry, R. W.: Renal alkaline phosphatase in diabetes mellitus: A histochemical study (abstract). J. Nat. Cancer Inst. 10: 1373.

\*Mühlethaler, Kurt: An electron microscopic study of the structure of viscose silk. Experientia 6: 226.

Mulhern, Thomas D.: See Peters, Richard F. (Thurman, Markos, and Mulhern).

\*Mushkin, Selma J.: Fiscal status of social insurances in the United States. Pub. Finance 5: 369.

Musselman, A. D.: See Eagle, Harry (Fleischman and Musselman).

- \*Nadel, Eli M.: Histopathology of estrogen-induced tumors in guinea pigs. J. Nat. Cancer Inst. 10: 1043.
- Ness, Robert K. (Fletcher and Hudson): The reduction of acetylated glycopyranosyl bromides to 1,5-anhydroglycitols with lithium aluminum hydride 1,5-anhydro-L-rhamitol. J. Am. Chem. Soc. 72: 4547.
- Newell, John F. (Christenson, Shaykin, Krieger, Moeller, and Ruchhoft): Laboratory studies on the removal of plutonium from laundry wastes (abstract). *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 178.
- Nicholson, F. P.: See Wright, R. D. (Nicholson and Arnold).
- \*Nicholson, H. P. (and Vetter): A lethal trap for capturing small mammals with their ectoparasites. J. Parasitol, 36: 235.
- Nolan, M. O.: Laboratory tests on the rapidity of molluscacidal action of copper sulfate in high concentrations. Pub. Health Rep. 65: 1481.
- ---- See also Berry, E. G. (Nolan and González).
- Norris, Arthur H. (Shock and Yiengst): A comparison of cardiovascular responses to tilting and standardized exercise in old and young males (abstract). J. Gerontol. 5: 384.
- Norris, F. I.: See Ruchhoft, C. C. (Norris and Setter).
- Novack, L. (and Brodie): Quinoline and its transformation products found in urine. J. Biol. Chem. 187: 787.

#### 0

- Oliver, Dorothy S.: See Collins, Selwyn D. (Phillips and Oliver).
- Olivier, Louis: Some characteristics of early schistosome infections in mice (abstract). J. Parasitol. 36: 13, Supp.
- Olson, Bryon J.: See Hanlon, C. Rollins (Scott and Olson); Michael, Max, Jr. (Cole, Beeson, and Olson); Scott, H. William, Jr. (Hanlon and Olson).
- Ottinger, Barbara: See Germuth, Frederick G., Jr. ( and Ottinger).
- Oyama, Vance: See Germuth, Frederick G., Jr. (Eagle and Oyama).

#### P

- Palmer, Carroll E. (Ferebee and Petersen): Studies of pulmonary findings and antigen sensitivity among student nurses. VI. Geographic differences in sensitivity to tuberculin as evidence of nonspecific allergy. Pub. Health Rep. 65: 1111.
- Papper, E. M.: See Helrich, Martin (Papper, Brodie, Fink, and Rovenstine).
- \*Parker, R. R. (de Prada, Bell, Lackman, Gay, and Llorente): Aislamiento de la *Coxiella burnetii* en el *Hyalomma savignyi* y primer caso de fiebre Q humana en Espana (Isolation of the *Coxiella burnetii* in the *Hyalomma savignyi* and the first case of Q fever in Spain). Medicamenta, Madr. 8: 154.
  - --- See also Lackman, D. B. (Parker and Pickens).
- \*Parsons, Elizabeth I. (and Forbisher): Studies of the somatic antigens of Corynebacterium diphtheriae. Am J. Hyg. 52: 247.
- —— See also Forbisher, Martin J., Jr. (and Parsons); King, Elizabeth O. (Forbisher and Parsons).
- Patnode, R. A.: See Robinson, J. H. (Cummings and Patnode).
- Pearce, George W. (Goette and Spillane): Insecticidal formulations. CDC Bull. 9: 17, Nov.
- Pecora, Louis J. (Ashburn and Hundley): The influence of rice and purified diets upon the cardiac behavior of thiamine deficient rats. Proc. Soc. Exper. Biol. and Med. 74: 721.

Peirce, E. Converse, II: See Bill, A. H. (Peirce and Gross); Southworth, J. L. (McKusick, Peirce, and Rawson).

Pennell, Maryland Y. (Bain and Hubbard): Child health services in twelve metropolitan districts. Pub. Health Rep. 65: 903.

Perara, George A. (and Plotz): The response to methacholine in rheumatoid arthritis. Am. J. Med. Sc. 220: 307.

Perone, Vernon B.: See Fairhall, Lawrence T. (Highman and Perone).

Perry, Maude E.: See Hanchett, Leland J. (and Perry).

\*Peters, Richard F. (Thurman, Markos, and Mulhern): The unfolding program of vector control in California with reference to studies of mosquito biology.

J. Nat. Malaria Soc. 9: 173.

\*Philip, Cornelius B.: Corrections and addenda to a catalog of Neartic Tabanidae.

Am. Midland Naturalist 43: 430.

— Further comments on the nomenclature of the pathogenic Rickettsiae of man (abstract). In Proc. 5th Internat. Cong. Microbiol., p. 226.

\*—— New North American Tabanidae (Diptera). II. Tabaninae; III. Notes on *Tabanus molestus* and related horseflies with a prominent single row of triangles on the abdomen. Ann. Ent. Soc. America 43: 115, 240.

——— (Hughes, Rao, and Kalra): Studies on "Indian tick typhus" and its relation to other human typhus-like rickettsioses (abstract). In Proc. 5th Internat. Cong. Microbiol., p. 115.

Phillips, F. Ruth: See Collins, Selwyn D. (Phillips and Oliver).

Pickens, E. G.: See Lackman, D. B. (Parker and Pickens).

Pittman, Margaret: Sensitization of mice to histamine by pertussis vaccine (abstract). In Proc. 5th Internat. Cong. Microbiol., p. 80.

---- See also Davis, Dorland J. (Pittman and Griffitts).

Plotz, Charles M.: See Perara, George A. (and Plotz).

Pope, Charlotte: See Blum, Harold F. (Pope, Price, and Witmer).

Pratt, A. W.: See Eden, M. (Pratt and Kahler).

Pratt, James W. (Richtmyer and Hudson): D-gluco-D-IDO-heptosan<1,5>B <1,6> from the action of acid on D-gluco-D-IDO-heptose (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 10R.

\*Prehn, Richmond T.: Note on the lack of progressive growth of metastic mammary carcinoma transplanted subcutaneously into foreign strains of mice. J. Nat. Cancer Inst. 10: 893.

Price, Judith P.: See Blum, Harold F. (Pope, Price, and Witmer).

Price, Vincent E.: See Fu, Shou-Cheng J. (Levintow, Price, and Greenstein); Fu, Shou-Cheng J. (Price and Greenstein).

Pricer, W. E., Jr.: See Kornberg, Arthur (and Pricer).

Prince, Frank M.: See Link, Vernon B. (Longergan and Prince); Link, Vernon B. (and Prince).

Prior, John A. (Wilce and Palchanis): Geographic distribution of pulmonary calcification among university students in Ohio. Pub. Health Rep. 65: 1132.

#### Q

Quarterman, Kenneth D.: The status of fly resistance to insecticides in the Savannah area and its implications in the general problem of fly control. CDC Bull. 9: 3, Nov.

Quinby, Griffith E.: Epidemiological appraisal of reported malaria in the United States from 1947 through 1949. J. Nat. Malaria Soc. 9: 397.

----- See also Andrews, Justin M. (Quinby and Langmuir).

- Ransom, Sara Elizabeth (and Huebner): Thermal and chemical resistance of *Coxiella burnetii* (abstract). *In* Proc. 50th general meeting, Society of American Bacteriologists, p. 91.
- Rausch, Robert L. (and Kuns): Studies on some North American shrew cestodes. J. Parasitol. 36: 433.
- —— See also Schiller, Everett L. (and Rausch); Van Cleave, Harley J. (and Rausch).
- Rawson, Freeman L., Jr.: See Southworth, J. L. (McKusick, Peirce, and Rawson). Reardon, Lucy V.: See Rees, Charles W. (Reardon and Bartgis).
- Reed, Louis S.: See Cronin, John W. (Reed and Baney).
- Rees, Charles W.: Experiments on excystation and growth of *Endamocba histolytica* and *Endamocba coli* (abstract). J. Parasitol. 36: 37, Supp.
- Le métabolisme d'*Entomoeba hystolitica* et ses relations avec les problèmes de l'amibiase clinique (The metabolism of *Endamoeba histolytica* and its relationship to problems in clinical amoebiasis). Gaz. méd. France 57: 835.
- ---- (Reardon and Bartgis): The excystation of Endamoeba histolytica without bacteria in microcultures. Parasitology 40: 338.
- Reid, James C. (Landefeld and Gray): Synthesis of histidine-2-C<sup>14</sup> and its distribution in the hepatoma-bearing rat (abstract). *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 22C.
- Reynolds, William F.: See Gillick, Frederick G. (and Reynolds).
- Rhees, M. C.: See Thornton, Helen (Ellerbrook, Rhees, Stowell, and Lippincott). Richeson, Edna M.: See Greenberg, Joseph (and Richeson).
- Richtmyer, Nelson K. (and Hudson): A direct proof of the equivalence of carbon atoms 1 and 6 in D-mannitol and a new method of correlating certain higher-carbon sugars and alcohols. J. Am. Chem. Soc. 72: 3880.
- —— (Stewart and Hudson): The action of Acetobacter suboxydans upon L-fucitol and other  $\omega$ -desoxy sugar alcohols (abstract). In Abstracts of papers, 118th meeting, American Chemical Society, p. 9R.
- —— See also Fletcher, Hewitt G., Jr. (and Richtmyer); Pratt, James W. (Richtmyer and Hudson); Zissis, Emmanuel (Richtmyer and Hudson).
- Riley, Vernon: Chromatographic studies on the separation of the virus from chicken tumor I. I. Effect of salt concentration on adsorption, elution, and purification; II. Zoning, purification, and recovery of the agent from the column; III. Titration curve of the agent. J. Nat. Cancer Inst. 11: 199; 215; 229.
- —— Salt inhibition and enhancement of cytochrome succinic and dopa-oxidase systems of mouse melanomas. Proc. Soc. Exper. Biol. and Med. 75: 644.
- Robinson, J. H. (Cummings and Patnode): Comparison of two solid media for testing sensitivity to streptomycin. Am. Rec. Tuberc. 62: 484.
- Rogosa, M. (and Mitchell): The indispensability of magnesium for *Lactobacillus helveticus* and its unavailability in a magnesium azide complex. *In Proc.* 50th general meeting, Society of American Bacteriologists, p. 130.
- Ross, Helen E.: See Dyer, Helen M. (and Ross); Schneider, Walter C. (Hogeboom and Ross).
- Ross, Sister Hilary: Studies of the absorption, excretion, and distribution in the body of the sulfones used in the treatment of leprosy. Internat. J. Leprosy 18: 333.
- Rosza, Georg (Morgan, Szent-Györgyi, and Wyckoff): The electron mycroscopy of myelinated nerve. Biochimica et Biophysica Acta 6: 13.

Supp.

Rosza, Georg (Morgan, Szent-Györgyi, and Wyckoff): The electron microscopy of sectioned nerve. Science 112: 42.

Rovenstine, E. W.: See Helrich, Martin (Papper, Brodie, Fink, and Rovenstine). Ruble, James W.: See Law, Frank E. (and Ruble).

Ruchhoft, C. C. (Norris and Setter): Activated sludge from common foods for radioactive waste treatment. Laboratory studies (abstract). *In* Abstracts of papers, 118th meeting, American Chemical Society, p. 168.

See also Ettinger, M. B. (Ruchhoft and Lishka); Ludzack, F. J. (Moore, Krieger, and Ruchhoft); Moore, W. Allan (Ludzack and Ruchhoft); Newell,

John F. (Christenson, Shaykin, Krieger, Moeller, and Ruchhoft).

9

- Salvin, S. B.: Public health aspects of fungus infections. Ann. New York Acad. Sc. 50: 1217.
- Quantitative studies on the serologic relationships of fungi. J. Immunol.
   65: 617.

Sandstead, Harold R.: See Sebrell, W. H. (and Sandstead).

- Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker):
  Production of malignancy in vitro. XII. Further transformations in vitro of mouse fibroblasts to sarcomatous cells. J. Nat. Cancer Inst. 11: 351.
- Sargent, Lewis J. (and Small): On the structure of morphine and its derivative metopon. Science 112: 473.
- Schapiro, Harold: See Birren, James E. (Schapiro and Miller).
- Scheele, Leonard A.: Arthritis as a public health problem. Pub. Health Rep. 65: 1351.
- A new era in medical research and practice. Editorial. Am. J. Med. 9: 1.
   \*—— Industrial hygiene. A new frontier in public health and industry.
   Modern San. 2: 19, Feb.
- —— Opportunities in the teaching of preventive medicine. J. Assoc. Am. Med. Coll. 25: 241.
- Progress and problems in national health. West Virginia Med. J. 46: 169.
   Regional planning to insure better patient care. Hosp. Prog. 31: 258.
- —— United Nations Day—October 24. Editorial. Pub. Health Rep. 65: 1315. Schiller, Everett L. (and Rausch): A vole (*Microtus*) an important natural intermediate host of *Echinococcus granulosus* (abstract). J. Parasitol. 36: 30,
- \*Schilling, Edward L. (Earle and Evans): Use of perforated cellophane substrate in slide preparation tissue cultures. J. Nat. Cancer Inst. 10: 883.
- \*Schneider, Walter C. (and Hogeboom): Intracellular distribution of enzymes. VI. The distribution of succinoxidase and cytochrome oxidase activities in normal mouse liver and in mouse hepatoma. J. Nat. Cancer Inst. 10: 969.
- (Hogeboom and Ross): Intracellular distribution of enzymes. VII. The distribution of nucleic acids and adenosinetriphosphatase in normal mouse liver and mouse hepatoma. J. Nat. Cancer Inst. 10: 977.
- See also Hogeboom, George H. (and Schneider); Kielly, Ruth K. (and Schneider).
- Schneiderman, Marvin (and Brecher): The relative frequency of sparse cell elements. An application to reticulocyte blood counts. Biometrics 6: 390.

Schneiderman, Marvin. See also Brecher, George (and Schneiderman).

Schneiter, Roy (and Kolb): The heat resistance of *Bacillus anthracis* spores in physiological saline, hair, and bristles at temperatures ranging from 190 F. to 212 F. (90 C.–100 C.) (abstract). *In* Proc. 50th general meetings, Society of American Bacteriologists, p. 20.

Schoenbach, Emanuel B. (Goldin and Greenspan): Studies on the mechanism of action of chemotherapeutic agents in cancer. III. Relationship of genital growth response in mice to the folic acid analogue, 4-amino-pteroylglutamic acid. Cancer 3: 864.

——— (Greenspan and Colsky): Reversal of aminopterin and amethopterin toxicity by citrovorum factor. J. Am. Med. Assoc. 144: 1558.

Schrecker, Anthony W.: See Hartwell, J. L. (and Schrecker).

Schubert, Joseph H. (and Herndon): A study of certain factors affecting the agglutination test for tuberculosis. Pub. Health Rep. 65: 883.

——— (and Kelley): The precipitin technique for determining species of host blood in mosquitoes—Modifications and improvements. J. Nat. Malaria Soc. 9: 341.

Scott, David B. (and Wyckoff) : Electron microscopy of human dentin. J. Dent. Research 29: 556.

Scott, H. William, Jr. (Hanlon and Olson): Experimental tuberculosis. II. Effects of ligation of pulmonary arteries on tuberculosis in monkeys. J. Thoracic Surg. 20: 761.

Sears, Mary A.: The public health nurse in a cancer control program. Pub. Health Nursing 42: 384.

\*Sebrell, W. H.: Nutrition and health. Nutritional Observatory (Heinz Trade J.) 11: 1.

\*--- Nutrition and public health. Teaching Scientist 6: 75.

\* (and Sandstead): Nutrition in public health practice. In Clinical nutrition edited by Norman Jolliffe et al. for the Food and Nutrition Board of the National Research Council, New York, Harper Bros., p. 755.

Sessoms, Stuart N.: See Terry, Luther L. (Lewis and Sessoms).

Setter, L. R.: See Ruchhoft, C. C. (Norris and Setter).

Shafer, Margaret K.: These tests help the hospital to measure nursing quality. Mod. Hosp. 75: 63, July.

Shapiro, Maurice M. (and Yagoda): Collimated and wide-angle meson groups in a hard-shower star. Physiol. Rev. 80: 283.

Shaw, Frank R.: Epidemic and disaster aid. CDC Bull. 9: 28, Nov.

Shear, M. J.: See Greenspan, Ezra M. (Leiter and Shear); Leiter, J. (Downing, Hartwell, and Shear).

Shelton, Emma: See Earle, Wilton R. (Schilling and Shelton); Earle, Wilton R. (Shelton and Schilling); Sanford, Katherine K. (Earle, Shelton, Schilling, Duchesne, Likely, and Becker).

Shimkin, Michael B.: University of California program in cancer research. California Med. 73: 297.

\*---- (and Bierman); Blood histamine in leukemia. Am. J. Med. 8: 542.

Shock, Nathan W.: Age changes in renal function. Rev. méd. Liege 5: 649.

Broadening horizons in gerontology. In Planning the older years, edited by W. Donahue and C. Tibbitt, Ann Arbor, Mich., University of Michigan Press, 1950, p. 9.

Shock, Nathan W.: Physiological manifestations of chronic emotional states. In Feelings and emotions; The Mooseheart symposium, edited by M. L. Reymert. New York, McGraw-Hill, 1950, p. 277.

Shore, Parkhurst A.: See Andrews, Howard L. (and Shore).

Siem, R. A.: See McLimans, W. F. (Siem, Mark, and Pinska); McLimans, W. F. (Siem and Scholljegerdes).

Sikes, Robert K.: See Chamberlain, Roy W. (and Sikes).

Simmons, S. W.: See Hayes, Wayland J., Jr. (and Simmons).

Slattery, Paul A. (Lyons and Shimkin): The lack of effect of lactogenic hormone on mammary adenocarcinoma in mice. Proc. Soc. Exper. Biol. and Med. 74: 539.

Small, Lyndon: See Findlay, Stephen P. (and Small); Sargent, Lewis J. (and Small).

Smith, Kenneth M. (and Wyckoff): Structure within polyhedra associated with insect virus diseases. Nature 166: 861.

Smith, L. E.: Blood pyruvate levels following intravenous glucose injections in aged males. Am. J. Med. Sc. 220: 78.

Smyrniotis, P. Z.: See Horecker, B. L. (and Smyrniotis).

Snapper, I. (and Greenspan): Recent advances in the treatment of malignancy. New York State J. Med. 50: 1573.

Sober, H. A. (Hollander and Sonnenblick): Response of gastric mucous barrier in pouch dogs to repeated topical application of eugenol. Am. J. Physiol. 162: 120.

------ See also Block, Richard J. (and Sober); Meister, Alton (Sober and Tice).

Sollner, Karl: Recent advances in the electrochemistry of membranes of porous character with particular reference to membranes of high ionic selectivity. J. Electrochem. Soc. 97: 139C.

Solomon, D. H. (and Shock): Studies of adrenal cortical and anterior pituitary function in elderly man. J. Gerontol. 5: 302.

\*Southworth, J. L. (McKusick, Peirce, and Rawson): Ventricular fibrillation precipitated by cardiac catheterization; Complete recovery of the patient after 45 minutes. J. Am. Med. Assoc. 143: 717.

Spangler, C. D. (Clapp and Clark): A field test for efficiency of detergents. Am. J. Pub. Health 40: 1402.

Specht, Heinz: See Marshall, Louise H. (and Specht).

Spencer, R. R.: Current concepts and approaches to cancer research. J. Kentucky State Med. Assoc. 48: 314.

\*Spicer, S. S.: Species differences in susceptibility to methemoglobin formation.
J. Pharmacol. and Exper, Therap. 99: 185.

\*—— (and Wooley): Effect of diet on the reaction of rabbit erythrocytes to nitrite in vitro. Arch. Biochem. 27: 202.

Spicknall, Charles G. (Kurland, Carle, and Terry): The relationships of brucellosis and multiple sclerosis. J. Am. Med. Assoc. 143: 1470.

Spillane, Janet T.: See Pearce, George W. (Goette and Spillane).

Steele, J. Murray (Berger, Dunning, and Brodie): Total body water in man. Am. J. Physiol. 162: 313.

--- See also Berger, E. Y. (Dunning, Steele, Jackenthal, and Brodie).

Steinman, Harry G. (and Eagle): Nutritional requirements of treponemata.
II. Pantothenic acid, glutamine, and phenylalanine as additional growth-promoting factors for the Reiter treponeme.
J. Bact. 60: 57.

Stewart, Harold L.: The administrative aspects of organizing a unit devoted to the study of geographical pathology of cancer. J. Nat. Cancer Inst. 11: 661.

——— (Kaplan and Bennett): Report of two cases of identical primary tumors involving spinal nerve roots and meninges in strain NHO mice. J. Nat. Cancer Inst. 11: 177.

Stewart, Laura C.: See Richtmyer, Nelson K. (Stewart and Hudson).

Stowell, E. C., Jr.: See Thornton, Helen (Ellerbrook, Rhees, Stowell, and Lippincott).

Striebich, Mary Jo: See Dalton, Albert J. (Kahler, Striebich, and Lloyd); Dalton, A. J. (Morris, Striebich, and Dubnik).

Symeonidis, A.: The application of pathology to the field of cancer demography. J. Nat. Cancer Inst. 11: 660.

Poststarvation gynecomastia and its relation to breast cancer in man.
 J. Nat. Cancer Inst. 11: 656.

Szent-Györgyi, A: See Rozsa, Georg (Morgan, Szent-Györgyi, and Wyckoff).

#### T

Tabor, Elbert C. (and Frankhauser): Detection of diabetes in a nutrition survey. Pub. Health Rep. 65: 1330.

Tauber, Henry: Chymotrypsin inhibition by human serum in health and disease. Proc. Soc. Exper. Biol. and Med. 74: 486.

Taylor, D. Jane (Greenberg, Highman, and Coatney): Experimental infection of guinea pigs with *Endamoeba histolytica*. Am. J. Trop. Med. 30: 817.

—— See also Greenberg, Joseph (and Taylor); Josephson, Edward S. (Taylor, Greenberg, and Ray).

Taylor, M. W.: See Ewing, W. H. (Taylor and Hucks).

Terry, Luther L. (Lewis and Sessoms): Laboratory infection with Leishmania donovani. Am. J. Trop. Med. 30: 643.

----- See also Spicknall, Charles G. (Kurland, Carle, and Terry).

\*Thomas, Edwin B.: Scotomata in conjunction with streptomycin therapy: Report of eleven cases. Arch. Ophth. 43: 729.

Thompson, E. T.: Some medical-legal problems and suggestions for their solution. Parts I and II. Hosp. Management 70: 98, July; 98, Aug.

Thompson, Frederick A., Jr. (Greenberg and Magnuson): The relationship between immobilizing and spirocheticidal antibodies against *Treponema pallidum*. J. Bact. 60: 473.

Thornton, Helen (Ellerbrook, Rhees, Stowell, and Lippincott): Complement fixation in animal neoplasia. I. A study of technics for measurement of the reaction in rabbit serum with special reference to the temperature of inactivation. J. Nat. Cancer Inst. 11: 97.

Thurman, Deed C., Jr.: See Peters, Richard F. (Thurman, Markos, and Mulhern). Thurman, E. B.: See Johnson, P. T. (and Thurman).

Tibbitts, Clark: National conference on aging. Pub. Health Rep. 65: 1369.

Tice, Sarah V.: See Meister, Alton (Sober and Tice); Meister, Alton (and Tice).

Toal, Jane Nicolet (and Daniel): Simple digestion unit with notes on the micro determination of nitrogen by direct nesslerization. J. Lab. and Clin. Med. 36: 950.

Tobie, Eleanor Johnson: See von Brand, Theodor (Tobie and Mehlman).

Tomlinson, T. H., Jr.: See Wilcox, Aimee (Tomlinson and Ballard).

\*Topping, Norman: The Federal Government looks at medical research. Am. J. Trop. Med. 30: 345.

\*Townsend, J. G.: The Government in industrial health. Am. J. Pub. Health 40: 580.

Trembley, Helen Louise: See Greenberg, Joseph (Trembley and Coatney).

Trimble, Guy H.: What are responsibilities of planners in equipping a hospital? Hosp. Management 70: 18, July.

Truitt, E. B., Jr. (McKusick and Krantz): Theophylline blood levels after oral, rectal, and intravenous administration and correlation with diuretic action. J. Pharmacol. and Exper. Therap. 100: 309.

Tullner, William W.: See Allen, Milton J. (Hertz and Tullner).

#### U

Udenfriend, Sidney: Identification of 2-aminobutyric acid in brain by the isotope derivative method. J. Biol. Chem. 187: 65.

--- See also Brodie, Bernard B. (and Udenfriend).

Upholt, William M.: The newer economic poisons of use in disease control. CDC Bull. 9: 7, Nov.

Usilton, Lida J.: See Gray, A. L. (Usilton and Iskrant).

#### V

Van Allen, Willard: Protecting photofluorographic personnel from excessive radiation. Pub. Health Rep. 65: 865.

Van Bogaert, Ludo (and Innes): Cerebellar disorders in lambs. A study in animal neuropathology with some comments on ovine neuroanatomy. Arch. Path. 50: 36.

\*Van Cleave, Harley J. (and Rausch): A new species of the Acanthocephalan genus Arythmorhynchus from sandpipers of Alaska. J. Parasitol. 36: 278.

Vetter, M. H.: See Nicholson, H. P. (and Vetter).

von Brand, Theodor: The respiration of trypanosome-infected rats (abstract).
J. Parasitol. 36: 41, Supp.

\*—— (Baernstein and Mehlman): Studies on the anaerobic metabolism and the aerobic carbohydrate consumption of some fresh water snails. Biol. Bull. 98: 266.

\*---- (Tobie and Mehlman): The influence of some sulfhydril inhibitors and of fluoroacetate on the oxygen consumption of some trypanosomes. J. Cell. and Comp. Physiol. 35: 273.

#### W

Waalkes, T. Phillip (Fones and White): New synthesis of L-amino adipic acid.
J. Am. Chem. Soc. 72: 5760.

---- See Fones, William S. (Waalkes and White).

\*Wagner, Carruth J.: Anal fistulectomy. Arch. Surg. 60: 1056.

A method of treatment of Bennett's fracture dislocation. Am. J. Surg. 80: 230.

Wang, Theodore J.: Cavity ionization chamber for the measurement of absorbed X-radiation energy. Neucleonics 7: 55, Aug.

Ward, Thomas G. (and Eddy): An antigenically distinct subtype of influenza virus A which is virulent for mice in primary passage of allantoic fluid. Science 112: 501.

Wattie, Elsie: See Butterfield, C. T. (Wattie and Chambers).

Waxler, S. H. (and Brecher): Obesity and food requirements in mice following administration of goldthioglucose. Am. J. Physiol. 162: 428.

Weiner, Murray (Shapiro, Axelrod, Cooper, and Brodie): The physiological disposition of Dicumarol in man. J. Pharmacol. and Exper. Therap. 99: 409.

Weisberger, Elizabeth K.: See Morris, Harold P. (Weisberger and Weisberger).

- Weisberger, John H.: See Morris, Harold P. (Weisberger and Weisberger).
- West, Mary G.: See Edwards, P. R. (and West).
- Westfall, Benton B.: See Morris, Harold P. (and Westfall).
- Wharton, G. W.: See Brennan, James M. (and Wharton).
- White, Carl L.: See Bryan, W. Ray (Maver, Moloney, Wood and White).
- White, Julius: See Berenbom, M. (and White); Fones, William S. (Waalkes and White); Fones, William S. (and White); Greenstein, Jesse P. (Levintow, Baker, and White); Waalkes, T. Phillip (Fones and White).
- White, Weldon C.: See Coatney, G. Robert (Cooper, Culwell, White, and Imboden); Coatney, G. Robert (Cooper, Eyles, Culwell, White, and Lints).
- \*Whitehead, Roy E.: Mesothelioma of the pleura. Dis. of Chest 17: 569.
- Wikler, Abraham: Adaptive behavior in long-surviving dogs without neocortex. Arch. Neurol, and Psychiat. 64: 29.
- ——— Sites and mechanisms of action of morphine and related drugs in the central nervous system. J. Pharmacol. and Exper. Therap. 2: 435.
- Wilcox, Aimee (Tomlinson and Ballard): A morphological alteration in *Plasmo-dium gallinaceum*. J. Nat. Malaria Soc. 9: 249.
- Wiprud, Theodore (and Altman): Cost of hospitalized acute illness. J. Am. Med. Assoc. 144: 835.
- Witmer, Ralph: See Blum, Harold F. (Pope, Price, and Witmer).
- Wittman, Milton: The training program in psychiatric social work under the National Mental Health Act. Soc. Work J. 31: 122.
- Woke, Paul: See Jacobs, Leon (Woke and Jones).
- Wood, Marguerite T.: See Bryan, W. Ray (Maver, Moloney, Wood, and White).
- Wooley, Jerald G.: See Spicer, S. S. (and Wooley).
- Wright, R. D. (and Liberti): "The Ever-Handy Clinic"—A new visual aid for students. J. Ven. Dis. Inform. 31: 316.
- —— (Nicholson and Arnold): Treatment of early syphilis with three injections of penicillin and with one injection of penicillin, II. J. Ven. Dis. Inform. 31: 235.
- Wright, Willard H.: Bilharziasis as a public health problem in the Pacific, WHO Bull. 2: 581.
- \*——— Introductory remarks for symposium on the physiology of parasites. J. Parasitol. 36: 175.
- Wyckoff, Ralph W. G.: The electron microscopic study of virus growth. In The pathogenesis and pathology of viral diseases. A symposium held at the New York Academy of Medicine by the Section on Microbiology and Pathology, December 14-15, 1948. Symposia No. 3 edited by John G. Kidd, New York, Columbia University Press, p. 62.

#### Y

- Yagoda, Herman: Cascade processes recorded in an emulsion chamber exposed in the stratosphere. Physiol. Rev. 80: 753.
- ---- See also Shapiro, Maurice M. (and Yagoda).
- Yiengst, Marvin J.: A new hemolytic agent for the manometric determination of the oxygen content of blood. Science 112: 205.
- ----- See also Norris, Arthur H. (Shock and Yiengst).

Young, Martin D.: See Burgess, Robert W. (and Young); Coatney, G. Robert (Cooper and Young); Cooper, W. Clark (Coatney, Culwell, Eyles, and Young); Edgcomb, John H. (Arnold, Yount, Alving, Eichelberger, Jeffery, Eyles, and Young); Eyles, Don E. (and Young); Hunninen, Arne V. (Young and Burgess); Jeffery, Geoffrey (Eyles and Young); McLendon, Sol B. (and Young).

2

Zander, Helmut A.: See Fitzgerald, Robert J. (Zander and Jordan).

Zipkin, I. (and Peiz): The citric acid content of human teeth. J. Am. Dent. Assoc. 29: 498.

Zissis, Emmanuel (Richtmyer and Hudson): A definitive proof that "alpha-fucohexose" is 7-desoxy-L-gala-D-manno-heptose. J. Am. Chem. Assoc. 72: 3882.

0

PUBLIC LIBRARY
MAR 7 1352
DETROIT

